



THE SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LIMITED

CONTRACT SANRAL N.001-192-2018/1

**FOR THE OPERATIONS AND MAINTENANCE OF
N1 SOUTH AND R30 TOLL PLAZAS ON
NATIONAL ROUTE N1 AND R30**

ADDENDUM NO. 3

**CHIEF EXECUTIVE OFFICER
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LIMITED
48 TAMBOTIE AVENUE
VAL DE GRACE
PRETORIA
0184**

EDMS#20687849

**THIS ADDENDUM IS TO BE READ IN CONJUNCTION WITH AND SHALL BE DEEMED TO BE PART OF
THE RELEVANT TENDER/CONTRACT DOCUMENT**

From

SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LIMITED (SANRAL EASTERN REGION)

to

TENDERERS

for

CONTRACT SANRAL N.001-192-2018/1

**FOR THE OPERATIONS AND MAINTENANCE OF N1 SOUTH AND R30 TOLL PLAZAS ON NATIONAL
ROUTE N1 AND R30**

THE ADDENDUM CONTAINS THE FOLLOWING

SECTION A: AMENDMENTS TO THE TENDER DOCUMENT (VOLUME 3)
SECTION B: AMENDMENTS TO THE TENDER DOCUMENT (VOLUME 4)
SECTION C: AMENDMENTS TO THE PRICING SCHEDULE (EXCEL FILE)

SECTION A: AMENDMENTS TO THE TENDER DOCUMENT (VOLUME 3)

1. Volume 3 Book 1, Notes to tenderer (page T-1)

Item 4 a), last sentence, should be amended to read “The Returnable Schedules shall be completed in the electronic format stipulated in Part T2.1 LIST OF RETURNABLE DOCUMENTS in the table below item 2 and stored in a USB Flash Drive and printed and bound hard copy”.

2. Volume 3 Book 1, PART T1.2 TENDER DATA, CLAUSE C.3.11

Replace the table in C.3.11 with the following:

Technical Scoring		Form	Max Score
1	Relevant Experience of the Tendering Entity	D5.1 & D5.2	50.00
2	Tendering Entity's QMS Credentials	D14	10.00
3	Development of Key Previously Disadvantaged Individuals (PDI) Staff and New Entrant	D14	20.00
4	Key Resources (CV's to be provided)	D4 & D14	35.00
5	Tendering Entity's Proposed Organisation and Staffing	D3, D4 & D14	15.00
6	Tendering Entity's Proposed Operations and Maintenance Plan	D14	90.00
7	Tendering Entity's Indicative Establishment Program	D7.1 & D14	20.00
Total Score			240.00
% Score (Minimum = 75%)			180.00

3. Volume 3 Book 1, PART T1.2 TENDER DATA, APPENDIX 1: BREAKDOWN OF QUALITY CRITERIA (CLAUSE C.3.11)

Replace the table in C.3.11 with the following:

Technical Scoring		Form	Max Score
1	Relevant Experience of the Tendering Entity	D5.1 & D5.2	50.00
2	Tendering Entity's QMS Credentials	D14	10.00
3	Development of Key Previously Disadvantaged Individuals (PDI) Staff and New Entrant	D14	20.00
4	Key Resources (CV's to be provided)	D4 & D14	35.00
5	Tendering Entity's Proposed Organisation and Staffing	D3, D4 & D14	15.00
6	Tendering Entity's Proposed Operations and Maintenance Plan	D14	90.00
7	Tendering Entity's Indicative Establishment Program	D7.1 & D14	20.00
Total Score			240.00
% Score (Minimum = 75%)			180.00

Replace the rows for Item 3 in the detailed scoring table, with the following:

3. Development of Key Previously Disadvantaged Individuals (PDI) Staff and New Entrant	20
3.1 Development of Key Previous Disadvantage Individual (PDI) Staff	10
List of Key Resources: <i>Contracts Engineer (Contractor's Representative)</i> <i>Operations Manager</i> <i>Maintenance Manager</i> Criteria (evidence of certificates of qualification plus CV and contacts of previous experience to be provided of qualification/previous experience)	
<i>Zero PDI Key Resource</i>	0
<i>One (1) PDI Key Resource</i>	2
<i>Two (2) PDI Key Resources</i>	5
<i>Three (3) PDI Key Resources</i>	10
3.2 Development of Targeted Enterprise (New Entrant)	10
<i>The process to identify possible Targeted Enterprise (New Entrant)</i>	1
<i>The proposed program how to develop the TE (New Entrant)</i>	1
<i>The detail and the level of training required</i>	1
<i>Risk transfer (less risk transfer higher the score)</i>	2
<i>Level of supervision and monitoring of the TE (New Entrant)</i>	1
<i>The proposed period of TE *New Entrant) operating on their own (TE operating for ≥ 12 months maximum score)</i>	4

Replace the rows for Item 4 Key Resources in the detailed scoring table, with the following.

4. Key Resources	35
4.1 Contractor's Representative Requirements:	15
<i>A compulsory Professionally Registered Engineer (PrTechEng) or Pr.CPM or relevant Business Qualification;</i>	2
<i>At least fifteen (15) years relevant experience;</i>	2
<i>Contract Management experience;</i>	2
<i>FIDIC Experience</i>	2
<i>Full time assigned to the Project.</i>	1
The resource should have experience in:	
<i>Business Management;</i>	1
<i>Corporate Governance Management;</i>	1
<i>Team Development and Management;</i>	1
<i>Operations Management;</i>	1
<i>Systems Integration Management;</i>	0.5
<i>Maintenance (Systems and Facilities) Management;</i>	0.5
<i>Dispute Resolution;</i>	0.5
<i>Performance Management.</i>	0.5
4.2 Operations Manager	10
Requirements:	
<i>At least ten (10) years relevant experience;</i>	1
<i>A suitable HR Management Qualification, or industry accepted alternate;</i>	1
<i>Full time assigned to the Project.</i>	1

<i>The resource should have experience in:</i>	
<i>Contract Management;</i>	0.5
<i>Operations Management;</i>	1
<i>Team Development and Management;</i>	1
<i>Customer Services Management;</i>	1
<i>Revenue Management</i>	1
<i>Performance Management;</i>	1
<i>Maintenance (systems and / or facilities) Management;</i>	0.5
4.3 Maintenance Manager Requirements:	10
<i>At least ten (10) years' relevant experience.</i>	2
<i>Minimum qualification: National Diploma</i>	1
<i>Preferred qualification: Engineer or Technician</i>	2
<i>The resource should have experience in:</i>	
<i>Project Management;</i>	1
<i>Performance Management;</i>	0.5
<i>Documentation Development (procurement)</i>	0.5
<i>Procurement Processes;</i>	0.5
<i>Facilities Maintenance;</i>	0.5
<i>Network Designs and Maintenance;</i>	0.5
<i>Device Maintenance Programmes;</i>	0.5
<i>Maintenance Audit Reviews;</i>	0.5
<i>Maintenance Trend Analysis</i>	0.5

4. Volume 3 Book 1, Part T2.1 LIST OF RETURNABLE SCHEDULES, table below item 2

Change column 2, "Electronic format", for the below forms, from "MS EXCEL" to "PDF".

- D1 Schedule of Tenderers Plant and Equipment
- D3 Tenderers Organisation and Staffing
- D4.1 Personnel Resource Details
- D6 Affidavit for Past Performance Reports

Change the "Form Description" for Form A12 to the following:

"JOINT VENTURE AGREEMENT"

5. Volume 3 Book 1, PART T2.1 RETURNABLE SCHEDULES, FORM A12: JOINT VENTURE AGREEMENT

Replace Form A12 with the following:

"FORM A12: JOINT VENTURE AGREEMENT"

CONTRACT SANRAL N.001-192-2018/1

FOR THE OPERATIONS AND MAINTENANCE OF N1 SOUTH AND R30 TOLL PLAZAS ON NATIONAL ROUTE N1 AND R30

Note to Tenderer:

1. In the event of a Joint Venture, attach to this form a signed and properly completed Joint Venture Agreement."

6. Volume 3 Book 1, PART T2.1 RETURNABLE SCHEDULES, FORM D14: TECHNICAL PROPOSAL, Clause 1.1.2

Replace clauses (c) and (d) with the following:

"(c) The tenderer to provide breakdown of the proposed manning levels.

(d) The tenderer to provide breakdown of number of staff of the various staff categories that is reflected in the appropriate items of the Schedule of Payments/Costs Matrix."

7. Volume 3 Book 1, PART T2.1 RETURNABLE SCHEDULES, FORM D13: DISTRIBUTION OF RISK BETWEEN THE MAIN CONTRACTOR AND THE NSC AND ANY OTHER SUBCONTRACTORS, Table titled RISK CATEGORY, DESCRIPTION, CAUSES, MITIGATION AND ALLOCATION

Item 14 for "Resource or input risk", amend the "Allocation" column to:

"Follow contractual process"

Item 17 for "Revenue risk", amend the "Description" column to:

"Income lost to fraud or operational negligence in use of toll system"

Item 18 for "Revenue risk Design defect risk: AVC detection and classification", amend the "Allocation" column to:

"Main Contractor and NSC, follow contractual process"

Item 20 for “Revenue risk: Design defect risk”, amend the “Allocation” column to:

“Main Contractor and NSC, follow contractual process”

8. Volume 3 Book 1, PART T2.1 RETURNABLE SCHEDULES, FORM F1: SCHEDULE OF TENDER COMPLIANCE

Add the following row to the table:

FORM NO / SBD NO	FORM DESCRIPTION	TICK IF COMPLETED
A9.3	COMPLIANCE WITH LABOUR LEGISLATION DECLARATION	

Change the “Form Description” of Form A12 to the following:

“JOINT VENTURE AGREEMENT”

9. Volume 3 Book 1, PART C1.2.3 APPENDIX 1 TO CONTRACT DATA: SECTION DATA, TABLE 2: APPENDIX TO CONTRACT DATA

Replace Table 2 with the following table:

Section no	Design-Build Section definition	Section Start date	Time for completion (days)	Delay damages (per day)	Section Commissioning Certificate	Cut-off date (days)	Retention
<i>Sub-Clause references</i>		1.1.6, 8.1, 9.1	1.1.78, 8.2; 9.2	8.5; 9.6	1.1.71, 11.5, 11.7	1.1.26, 9.13	1.1.66
1	Maintenance and support services for existing Toll System at Fixed Tendered Rates and Prices, including the Take-over (establish, train, transfer Employer's Facilities & Equipment, documents & processes / procedures, subcontracts, etc.)	Commencement Date	Max 42 days	NA	Yes	90 days	NA
2	Establishment upgrade of existing Toll System and relocation of the TCH payment gateway. (This section runs in parallel with Section 1).	Commencement Date	Max 548 days	NA	Yes (testing, commissioning and sign-off applicable)	180 days	NA
3	Provision of replacement Toll System. (This section runs in parallel with Section 1) and contains the following sub-sections 3.1 to 3.9	Commencement Date	Max 1095 days	NA	Yes (testing, commissioning and sign-off applicable)	180 days	NA
3.1	AVC/DCS: Count and class accuracy,						

Section no	Design-Build Section definition	Section Start date	Time for completion (days)	Delay damages (per day)	Section Commissioning Certificate	Cut-off date (days)	Retention
	redundancy, TCC interface, DCS interface, ITIS submission, health monitoring, version control and KPI						
3.2	Dedicated ETC lane: ETC accuracy and processing speed, TCH submission, health monitoring, version control and KPI						
3.3	ANPR: Transaction framing, ANPR accuracy and capture %, ANPR TCH submission, ANPR incl control (ANPR fail, like class fail integration), health monitoring, version control and KP						
3.4	Bank card processing: Lane level validation, Tap and go, processing speed, PCI, health monitoring, version control, Bank interface, VAT and KPI						
3.5	Cash processing: Lane level process, processing speed, health monitoring, version control and KPI						
3.6	Discount and concessions: Lane level process, processing						

Section no	Design-Build Section definition	Section Start date	Time for completion (days)	Delay damages (per day)	Section Commissioning Certificate	Cut-off date (days)	Retention
	speed, discrepancy handling, tariffs structure, validation list accuracy, health monitoring, version control and KPI						
3.7	Incident control: Lane level process, Control room process (class/VLN fail, serious/critical mode, other), image capture, processing speed, images to TCH, health monitoring, version control and KPI						
3.8	VGS system: Lane level implementation, transaction framing and video/image extraction, VGS audit/VGS clerk interface, processing speed, images to TCH, health monitoring, version control and KPI						
3.9	QLS and QL system: Queue detection, Queue reporting, queue audit, Control room process and queue reporting to incident control, image capture, processing speed, health monitoring, version control and KPI						

Section no	Design-Build Section definition	Section Start date	Time for completion (days)	Delay damages (per day)	Section Commissioning Certificate	Cut-off date (days)	Retention
4	Provision of a SANRAL MIS interface. This section overlaps with Section 3. This will include inter-alia, interface management, liaison, cooperation, etc between all applicable third-party contracts during the development.	Date stated in trigger Notice	365 days	NA	Yes (testing, commissioning and sign-off applicable)	90 days	NA
5	Provision of a national SANRAL toll system deployment. This Section can overlap with Section 3 or 4 during swap over. This will include inter-alia, interface management, liaison, cooperation, etc. between all applicable third-party contracts during the development.	Date stated in trigger Notice	548 days	NA	Yes (testing, commissioning and sign-off applicable)	90 days	NA

10. Volume 3 Book 1, PART C3.1 PROJECT DESCRIPTION, Clause C3.1.3.1

Replace the first bullet with the following:

“Design Build Commencement Date – middle April 2023 Expected.”

11. Volume 3 Book 1, Part C3.1 PROJECT DESCRIPTION, Clause C3.1.2.11

In the table below paragraph one, third column, replace the words “Model QS 3536” with the words “Quadguard 1240mm wide”.

12. Volume 3 Book 1, Part C3.1 PROJECT DESCRIPTION, Clause C3.1.13

Replace the 8th bullet with the following:

“B4010 – Due to vandalism to utility electricity supply networks and load shedding, the Contractor shall provide tendered rates for new standby generators to work as single or as parallel systems. The Contractor shall also increase maintenance frequency of generators that are continuously (24 hours /7 days a week) in operation to ensure system reliability. The Contractor shall appoint capable and experienced specialists for this function.”

13. Volume 3 Book 1, PART C3.2.2 PARTICULAR AMENDMENTS TO THE STANDARD SPECIFICATION FOR OPERATIONS AND MAINTENANCE OF CTROM PROJECTS: GENERAL (VOLUME 2 BOOK 2a), Clause PS15.1.2.1

Replace the first table with the following:

“

TOLL PLAZAS	SERVICE PROVIDER	EMERGENCY POWER GENERATOR
Verkeerdevlei Mainline	ESKOM	200 kVA
Vaal Mainline	ESKOM	100 kVA
Grasmere Mainline and Local Ramps	City Power*	200 kVA, second rental generator as backup
Grasmere Remote Ramps	Grasmere Mainline	Rental used as supply from mainline Toll Plaza was disrupted due to cable theft
Brandfort Toll Plaza	ESKOM	250 kVA

The plaza did not have power supply from Johannesburg City Power for a long period, due to the constant theft and vandalism from the Informal Settlement adjacent to the Control Building. However, the power supply from Johannesburg City Power has been reconnected in December 2022 and is currently the prime power source of the plaza.”

14. Volume 3 Book 1, PART C3.2.2 PARTICULAR AMENDMENTS TO THE STANDARD SPECIFICATION FOR OPERATIONS AND MAINTENANCE OF CTROM PROJECTS: GENERAL (VOLUME 2 BOOK 2a), Clause PS15.4.1.3

Replace this clause with the following:

“The Contractor is to ensure that the Toll Plaza concrete apron area (including tapers), is kept clear at all times of parked vehicles, people, hawkers, loiterers and the like.

The minimum-security requirements at the existing Toll Plazas are:

- Verkeerdevlei Mainline: One armed guard between 06:00 and 18:00, and two armed guards between 18:00 and 06:00. Panic buttons in lanes and Control Room linked to an armed response. In addition, armed response supervisor to make at least two (2) Ad hoc visits to the Toll Plaza per night.
- Vaal Mainline: One armed guard between 06:00 and 18:00, and two armed guards between 18:00 and 06:00. Panic buttons in lanes and Control Room linked to an armed response. In addition, armed response supervisor to make at least two (2) Ad hoc visits to the Toll Plaza per night.
- Grasmere Mainline: One armed guard between 06:00 and 18:00, and two armed guards between 18:00 and 06:00. Panic buttons in lanes and Control Room linked to an armed response. In addition, armed response supervisor to make at least two (2) Ad hoc visits to the Toll Plaza per night.
- Grasmere Remote Ramps: One armed guard between 06:00 and 18:00, and two armed guards between 18:00 and 06:00. Panic buttons in lanes and Control Room linked to an armed response. In addition, armed response supervisor to make at least two (2) Ad hoc visits to the Toll Plaza per night.
- Brandfort Mainline: One armed guard between 06:00 and 18:00, and two armed guards between 18:00 and 06:00. Panic buttons in lanes and Control Room linked to an armed response. In addition, armed response supervisor to make at least two (2) Ad hoc visits to the Toll Plaza per night.

The Contractor shall interface the external or internal control room under item B4013 with the Control Room managing the armed response to attend to any positive and confirmed vandalised or theft activity reported by the security cameras. The Contractor shall submit a monthly report on response times and action taken to secure the Employers assets. The Contractor shall carry further damage to the Employer's assets due to the Contractor failing to secure the area as determined by the Employer's Representative."

15. Volume 3 Book 1, PART C3.2.2 PARTICULAR AMENDMENTS TO THE STANDARD SPECIFICATION FOR OPERATIONS AND MAINTENANCE OF CTROM PROJECTS: GENERAL (VOLUME 2 BOOK 2a), Clause PS19.4.1

Remove the last sentence of the first paragraph that reads "The Contractor is required to provide one (1) vehicle per Toll Plaza section and these vehicles will be required to operate from the Verkeerdevlei Mainline, Vaal Mainline, Grasmere Mainline and Brandfort Mainline (R30) Toll Plazas".

16. Volume 3 Book 1, PART C3.2.2 PARTICULAR AMENDMENTS TO THE STANDARD SPECIFICATION FOR OPERATIONS AND MAINTENANCE OF CTROM PROJECTS: GENERAL (VOLUME 2 BOOK 2a), new Clause PS19.4.1.7

Add the following sentence to clause 19.1.4.7:

"The minimum requirements for the LDVs to be used shall, in addition to Table 19-1, be the following:

- Single cab vehicle
- Airbags – 3
- ABS brakes
- Minimum engine size of 2 litres
- Vehicle should have a bull bar
- Vehicle should have a canopy"

17. Volume 3 Book 1, PART C3.2.2 PARTICULAR AMENDMENTS TO THE STANDARD SPECIFICATION FOR OPERATIONS AND MAINTENANCE OF CTROM PROJECTS: GENERAL (VOLUME 2 BOOK 2a), new Clause PS19.3.3.4

Add the following sentence to clause 19.3.3.4:

"The frequency of road signs for the Call Centre contact number shall be two (2) signs (one per direction) for every 20km of toll road".

18. Volume 3 Book 1, PART C3.2.3 PARTICULAR AMENDMENTS TO THE STANDARD SPECIFICATION FOR OPERATIONS AND MAINTENANCE OF CTROM PROJECTS: ELECTRICAL AND MECHANICAL EQUIPMENT (VOLUME 2 BOOK 3), Clause PS17.1.4 and PS17.1.5

Replace clauses PS17.1.4 and PS17.1.5 with the following:

"PS17.1.4 The Contractor shall supply and install a second standby power generator at Grasmere mainline."

"PS17.1.5 The Contractor shall supply and install new generator controller modules that will be configured to alternating between the primary and secondary generators to share the load equally during a 24hr period. The Contractor shall provide a detail technical proposal on the operations of both generators for the ER approval before the Contractor can continue with the implementation."

19. Volume 3 Book 1, PART C3.2.3 PARTICULAR AMENDMENTS TO THE STANDARD SPECIFICATION FOR OPERATIONS AND MAINTENANCE OF CTROM PROJECTS: ELECTRICAL AND MECHANICAL EQUIPMENT (VOLUME 2 BOOK 3), Clause PS18.1.9

For the bullet "Monitoring of temperature of", change the first sub-bullet from "Control room" to "Server room".

20. Volume 3 Book 1, PART C3.2.3 PARTICULAR AMENDMENTS TO THE STANDARD SPECIFICATION FOR OPERATIONS AND MAINTENANCE OF CTROM PROJECTS: ELECTRICAL AND MECHANICAL EQUIPMENT (VOLUME 2 BOOK 3), Clause PS37

Replace this clause with the following:

"The Contractor to note that it is the intention of the Employer to install Small-Scale Embedded Generation (SSEG) or Off-Grid Embedded Generation (OGEG), in respect of new photovoltaic (PV) systems with battery storage, 8hr autonomy and generator back-up that will be used to reduce the Employers reliance on external service providers, or to take the complete Toll Plaza off grid where required.

Grasmere Mainline and Ramps Toll Plaza shall be the first Toll Plazas that will be upgraded with a new PV system due to historic occurrences of vandalism of City Power infrastructure, and interruptions in power supply.

The main components of the PV system are proposed to consist of the following:

- Photovoltaic panels, from a tier 1 manufacturer, with a lightweight aluminum mounting structure, shall be supplied and installed on the existing lane canopy structure. The canopy structure shall be signed off by a structural engineer;
- DC cabling and cable ways between equipment;
- DC combiner boxes complete with DC fuses, DC switches and DC surge protection;
- Lightning protection for PV system;
- Cabling between combiner boxes and inverter;
- Lithium batteries for solar energy storage;
- Diesel generator integration to ensure system backup;
- Inverters shall be type tested inverters in terms of NRS 097-2-1:2017, as amended;
- Inverters, rated according to the maximum demand, as measured by the Contractor at the Plaza for a minimum period of one week.
- SANS 1507 PVC SWA PVC LV Cable between the Inverters and electrical infrastructure.

- The PV installation shall be signed off by a PrEng or PrTech (Electrical) and registered at the local authority.

The Contractor shall be required to proof that the material and the PV installation complies with local and international standards and regulations during the detail design and commissioning phases.

The Table below provides information of the existing area available on the Toll Plaza lane canopy and plant building (Verkeerdevlei) for the installation of PV panels:

Toll Plaza lane canopy area	Mainline			Ramps		
	W	L	m ²	W	L	m ²
Grasmere	15.7	101	1585.7	13	13	169
Vaal	15.7	42.5	667.25			
Verkeerdevlei (plant building)	7.5	23	172.5			
Brandfort	21	37.8	793.8			

Toll Plaza lane canopy area	Mainline			Ramps		
	m ²	-m ²	=m ²	m ²	-m ²	=m ²
Grasmere	1585.7	20%	1268.56	169	20%	118.3
Vaal	667.25	20%	533.8			
Verkeerdevlei (plant building)	172.5	30%	120.75			
Brandfort	793.8	20%	635.04			

-m² maintenance area deducted

=m² estimated available area for panels

The Contractor shall provide a design for the PV and battery storage system, which shall be discussed with the Employer and the Employer's Representative.

The Contractor shall maintain the PV system on a bi-monthly basis which will include but not be limited to cleaning panels, inspect mounting structure, cabling, cable connection, equipment, batteries, performance of the system. The interface with the generator shall also be tested.

The Contractor shall provide a complete and comprehensive maintenance PV plan to maintain the PV system to the ER for comments and approval. Maintenance payment will only be allowed based on the approved maintenance PV plan and confirmation through a detail report submitted on a bi-monthly basis.

The available energy consumption per Toll Plaza is included in Part C36 of Volume 4."

21. Volume 3 Book 1, PART C3.2.4 PARTICULAR AMENDMENTS TO THE STANDARD SPECIFICATION FOR OPERATIONS AND MAINTENANCE OF CTROM PROJECTS: TOLL SYSTEMS (VOLUME 2 BOOK 4a), Clause PS3.3.6

Replace Clause PS3.3.6 with the following:

"Remove clause 3.3.6."

22. Volume 3 Book 1, PART C3.2.6 PARTICULAR AMENDMENTS TO THE STANDARD SPECIFICATIONS FOR OPERATIONS AND MAINTENANCE OF CTROM PROJECTS: TOLL SYSTEMS (VOLUME 2 BOOK 4a), Clause PS2.7.3.1 System Upgrades

Replace Table 5-1: System upgrades, with the following table:

Sections	Description	Implementation required. (The list of items highlighted here is not exhaustive)	Implementation period after the Commencement Date of the Operation Service Period or the trigger
Section 1	Existing compliance level: Functional Compliance with the 2010 CTROM requirements	No new deployment required. The Contractor shall implement. The Contractor shall maintain a high level of the current system performance by appropriate routine and corrective maintenance processes.	42 days (6 Weeks)
Section 2	Keep existing compliance level: Functional Compliance with the 2010 CTROM requirements plus Establishment Upgrades.	Establishment upgrades including but not limited to: Replacing all old and underperforming hardware, operating systems, and application software Move the TCH gateway from Vodacom business to a plaza on the N1S route (PS13.2.2.1). Design and Deploy a VGS, QLS and ANPR pilot for the Grasmere mainline north plaza (if triggered).	365 days (12 months)
Section 3	Section 3 be the supply of a new Toll System, including additional items detailed in V3B1.	The new deployment shall include, but not be limited to: Replace hardware and deploying the new system. Hardware replaced during the establishment phase may be utilised. Additional Lane level in designated ETC lanes including: 10 DETC lane: Grasmere (4), Vaal (2), Verkeerdevlei (2) and Brandfort (2) plazas. ETC OHLS (e-sign) in Shesha and dedicated ETC lanes Lane and plaza network upgrades Supply a full complement of spares, tools and a test rig ANPR, including VLN presence detector in all lanes (if pilot is successful and if triggered). Health monitoring TCC, BOS, VGS and PGW. Configuration management for the Toll and VGS/QLS System. Deploy the NI South OPS level server and the TCH payment gateway at the Server room at Grasmere plaza. New payment gateway and OPS level server. Manage and implement a direct fibre connection, utilizing the Liquid and GORT fibre backbone, the PGW	1095 days (36 months)

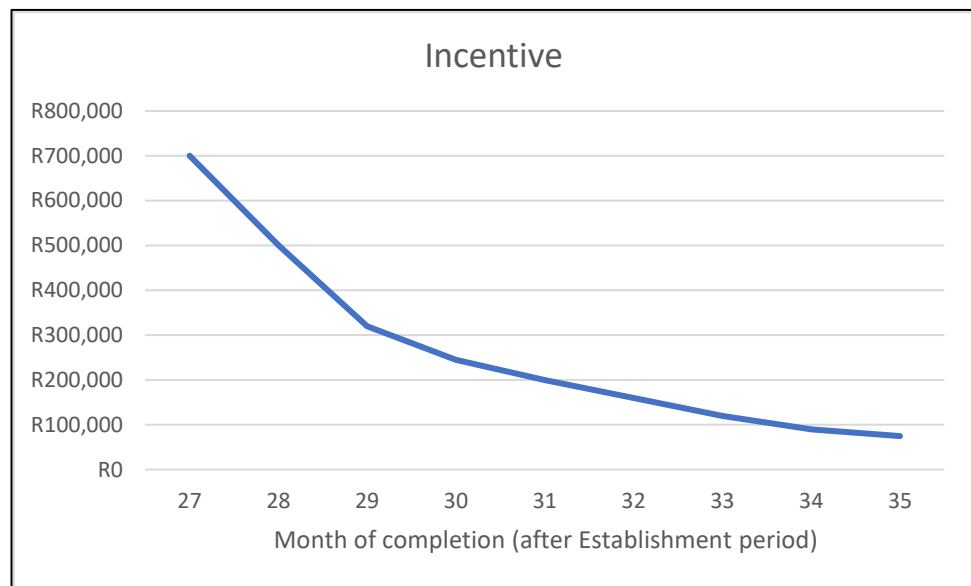
Sections	Description	Implementation required. (The list of items highlighted here is not exhaustive)	Implementation period after the Commencement Date of the Operation Service Period or the trigger
		<p>Upgrade all lane level UPS units and batteries.</p> <p>Add external EMV contactless card readers (light and heavy vehicles) to all mixed ETC lane (if triggered).</p> <p>Queue line 1 system for the mainline plaza, both directions</p> <p>PCI level 2 implementation and certification,</p> <p>Upgraded WAN, firewall and associated equipment.</p> <p>Implementation of the basic SANRAL MIS interface (as specified)</p> <p>Assessment of the Toll System in terms of the SANRAL National Toll System requirements.</p>	
Section 4	Section 4 shall be the deployment of the SANRAL MIS and shall include the full 2010 CTROM requirements, as amended by V3B1 and adjusted by the implementation of the SANRAL MIS.	<p>The Contractor shall design, tests and implement the necessary modifications and interfaces to accommodate the SANRAL MIS.</p> <p>The SANRAL MIS requirements, specifications and test application will be issued to the Contractor 6 months before the commencement of Level.</p>	<p>12 months</p> <p>This shall Include a six (6) week pilot phase during which operational testing shall be conducted for the SANRAL MIS.</p> <p>This shall include the time required by the Contractor to achieve revised compliance certification.</p>
Section 5	Section 5 shall be the deployment of the SANRAL Toll System and shall include the full 2010 CTROM requirements, as amended by V3B1 and adjusted by the implementation of the SANRAL toll system.	<p>The Contractor shall design, tests and implement the necessary modifications and interfaces to accommodate the SANRAL Toll System during parallel operations (Pilot phase and initial roll-out).</p> <p>The SANRAL Toll System requirements, specifications and test application will be issued to the Contractor 8 months before the commencement of Level.</p>	<p>18 months</p> <p>This shall Include a three (3) month pilot (Parallel operations) and trail operations phase during which operational testing shall be conducted for the SANRAL toll system.</p> <p>This shall include the time required by the Contractor to achieve revised compliance certification.</p>
Routine, performance, and End of Contract upgrades	The Contractor shall deploy upgrades to meet the 2010 CTROM requirements, as amended by V3B1. This may be adjusted by the implementation of the SANRAL toll system.	<p>The Contractor shall design, tests and implement the necessary upgrades dictated by the routine, performance, software and Obsolescence requirements. This shall include detailed performance tests of the system.</p> <p>The Contractor shall bring the workshop tools, critical spares, and test Rig up to the required levels ready for hand over.</p> <p>The Contractor shall prepare a pack with all documentation, licences and</p>	Last 6 months of the Contract

Sections	Description	Implementation required. (The list of items highlighted here is not exhaustive)	Implementation period after the Commencement Date of the Operation Service Period or the trigger
		codes required to be handed over to the next Contractor.	

23. Volume 3 Book 1, PART C3.2.6 PARTICULAR AMENDMENTS TO THE STANDARD SPECIFICATIONS FOR OPERATIONS AND MAINTENANCE OF CTROM PROJECTS: PERFORMANCE MEASUREMENT (VOLUME 2 BOOK 6a), Clause PS6.5.10.9

Replace the table and graph in PS6.5.10.9 with the following:

Month (after Establish-ment Period)	Incentive
27	R700,000
28	R500,000
29	R320,000
30	R245,000
31	R200,000
32	R160,000
33	R120,000
34	R90,000
35	R75,000



24. **Volume 3 Book 1, Part C3.2.7 PARTICULAR AMENDMENTS TO THE STANDARD SPECIFICATIONS FOR OPERATIONS AND MAINTENANCE OF CTROM PROJECTS: PAYMENT METHODOLOGY AND DESCRIPTION OF PAYMENT ITEMS (VOLUME 2 BOOK 7A), Part B – Section 2: Description of Payment Items – A Series: Operation Service**

A-5200 ELECTRICAL & MECHANICAL (E&M) AND HANDYMAN MAINTENANCE

Add the following new payment items:

“

Item No	Description	Unit
A-5209	Provision for E+M Specialist for maintenance of lifts in toll booths	month

The tendered rate under this item, is for the provision of specialist maintenance for lifts in toll booths, at Brandfort plaza.

The tendered rate shall include for all cost, overhead charges and profit to manage and administer the specialist, maintenance services related to monthly inspections and maintenance of lifts at Brandfort plaza.

The maintenance shall include, amongst others, frequent inspections, checks and notifications to the supplier of the Employers equipment at the various facilities.

The unit of measurement shall be month for the provision of maintenance of lifts. Payment to the Contractor will be on a monthly basis based on tendered rate on the Schedule of Payments/Cost Matrix for the duration of the Operation Service Period.”

25. **Volume 3 Book 1, Part C3.2.7 PARTICULAR AMENDMENTS TO THE STANDARD SPECIFICATIONS FOR OPERATIONS AND MAINTENANCE OF CTROM PROJECTS: PAYMENT METHODOLOGY AND DESCRIPTION OF PAYMENT ITEMS (VOLUME 2 BOOK 7A), Part B – Section 3: Description of Payment Items – B Series: Design-Build**

B4000 ELECTRICAL AND MECHANICAL SYSTEMS

For Item B4003-d, change the unit in the table from “No” to “Prov Sum”.

For Item B4003-h, change the unit in the table from “Lump Sum” to “No”.

Replace the first paragraph under the table for payment items B4010-a to B4010-i with the following:

“The rate tendered under this item, is for the provision of a new standby power diesel generator to be provided to any toll plazas as per the Employer’s Representatives instruction, in terms of the Standard Specifications for Operations and Maintenance of CTROM Projects: Electrical and Mechanical Equipment Volume 2 Book 3 as amended under Volume 3 Sub-Clause 3.2.3.”

For item B4023, change the heading in the table from “Fire Detection and suppression system complete” to “Earthing and lightning protection”.

B6000 PROVISIONAL SUMS

Add the following new payment items:

“

Item No	Description	Unit
B-6015	Provision for Civil Works to convert single toll booth to double toll booth (for conversion to reversible lane) (including signage)	
	(a) Provision for civil works to convert single toll booth to double toll booth (including signage)	Prov Sum
	(b) Overhead charges and profit in respect of above-mentioned item	%

The Provisional Sum provided under sub item a) will cover the costs for the provision of civil works to convert a single booth to a double booth (including signage).

The Provisional Sum shall be expended in accordance with the provisions of Clause 13.5 (Provisional Sums) of Volume 1 Book 1, the “FIDIC Conditions of Contract for Design, Build and Operate Projects”, to pay for the provision of civil works to convert a single toll booth to a double toll booth (including signage).

The percentage tendered under sub-item b) for overhead charges and profit shall be applied to the actual expenditure in terms of sub item a) and shall cover the Contractor's procurement and management of quotations and the management of execution for the provision of civil works to convert a single toll booth to a double toll booth (including signage).”

26. Volume 3 Book 1, PART D (SECTION D): STAKEHOLDER AND COMMUNITY LIAISON, AND TARGETED LABOUR AND TARGETED ENTERPRISES UTILISATION AND DEVELOPMENT, clause D1004.01

Replace the second paragraph with the following:

“SANRAL Project Liaison Committee Guidelines, is included in Part E1 of Volume 4 of the Contract for ease of reference.”

27. Volume 3 Book 1, PART D (SECTION D): STAKEHOLDER AND COMMUNITY LIAISON, AND TARGETED LABOUR AND TARGETED ENTERPRISES UTILISATION AND DEVELOPMENT, clause D1012.01

Change the reference to “Form D9” in sentence two, to “Form D15”.

28. Volume 3 Book 1, PART D (SECTION D): STAKEHOLDER AND COMMUNITY LIAISON, AND TARGETED LABOUR AND TARGETED ENTERPRISES UTILISATION AND DEVELOPMENT, clause D1007.01

Replace the second paragraph with the following:

“The TE Procurement Coordinator shall be knowledgeable of, and have experience in, the management of civil, electrical or electronic engineering projects, National Treasury supply chain management legislation and regulations, and stakeholder relations management.”

29. Volume 3 Book 1, PART D (SECTION D): STAKEHOLDER AND COMMUNITY LIAISON, AND TARGETED LABOUR AND TARGETED ENTERPRISES UTILISATION AND DEVELOPMENT, clause D1008.01

TE Construction Manager’s Qualifications and Experience

Replace the second paragraph with the following:

“The TE Construction Manager shall have at least 5 years’ experience as a Site Agent, or in the management or execution of civil, electrical or electronic engineering projects (construction or operation projects). In addition, he shall have ample knowledge of, and experience in, the requirements of training and mentoring in the civil, electrical or electronic engineering environment.”

TE Construction Manager’s Team

Delete this clause (two paragraphs and figure) and replace with the following:

“No Senior TE Site Supervisors, and no TE Site Supervisors will be required. The obligations of Senior TE Site Supervisors and TE Site Supervisors will be carried out by the TE Construction Manager.”

30. Volume 3 Book 1, Part C4 SITE INFORMATION

Add item B7, Service Report of Lifts at Brandfort Plaza.

SECTION B: AMENDMENTS TO THE TENDER DOCUMENT (VOLUME 4)

The following amendments are made to Volume 4 Book 1:

- Report is provided for Part B7 (Service report of lifts at Brandfort Plaza, Jan 2023) (separate file)
- For Part C4 (Asset registers: Civil, Structural, Building, O&M, E&M, LE and MIS), an updated register for Grasmere plaza is provided (separate file)
- An updated Part C7 (Planned plaza configuration) is provided (separate file)
- An updated Part C16 (Historic traffic figures) is provided (separate file)
- An updated Part C20 (Financial reports) is provided (separate file)

For Part B1 Current Contractors and Suppliers, add the following sub-contractor under new heading "Lift service and maintenance".

Plaza	Supplier name	Address	Contact Person	Contact number	Email address
Brandfort	Otis	Bedfordview	Area Manager: Toko Malebo	082 419 4887	

SECTION C: AMENDMENTS TO THE PRICING SCHEDULE (EXCEL FILE)

An amended cost matrix is provided as a separate file.

Email this page to ProcurementER4@sanral.co.za

(NO COVER PAGE PLEASE)

CONTRACT NRA N001-192-2018/1

FOR THE OPERATIONS AND MAINTENANCE OF N1 SOUTH AND R30 TOLL PLAZAS ON NATIONAL ROUTE N1 AND R30

SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LIMITED

FORM: ACKNOWLEDGMENT OF ADDENDUM NO.3

Date Issued: 7 March 2023

The addendum is to be read as forming part of the Project Document. Acknowledge receipt of this addendum by including the signed form to Form A5 of the tender document.

Receipt of Addendum No 3: Consisting of the following (tick to confirm receipt) is hereby acknowledged:

		Tick to confirm receipt
SECTION A	AMENDMENTS TO THE TENDER DOCUMENT (VOLUME 3)	
SECTION B	AMENDMENTS TO THE TENDER DOCUMENT (VOLUME 4)	
SECTION C	AMENDMENTS TO THE PRICING SCHEDULE (EXCEL FILE)	

.....
COMPANY

.....
NAME

.....
SIGNATURE

.....
DATE