

Activity Schedule

Mandatory Returnable

Item	Activity Description	Total Cost
<u>SECTION 1: PRELIMINARIES & PROJECT INITIATION</u>		
1.1	Participation at Kick-off Meeting	
1.2	Participation at Technical Meetings	
1.3	Baselining of Programme	
1.4	Mobilisation of Service Provider Project Team	
<u>SECTION 2: HEAD OFFICE (CENTRAL LOCATION)</u>		
2.1	Functional Requirement Specification (Enterprise Level) <i>*note: inclusive of user customizations</i>	
2.2	Central Dashboard Software Architecture & System Design Blueprint (Enterprise Level)	
2.3	Central System Dashboard Development & Implementation	
2.4	Central Azure Cloud Environment Development & Configuration	
2.5	Central System Integration with Transnet Systems	
2.6	Central System Training & Onboarding	
2.7	Central System UAT	
2.8	Central System Deployment	
2.9	Perpetual License	
2.10	Project Close Out Documentation	
<u>SECTION 3: TERMINALS</u>		
<u>KwaZulu-Natal: Richard's Bay Terminal</u>		
3.1	Site Survey	
3.2	Functional Requirement Specification (Terminal Level)	
3.3	Automation Hardware Design	
3.4	Data Acquisition Design (Data Network Connectivity & Communication)	
3.5	Terminal Software Architecture & System Design Blueprint	
3.6	Provision of All System Hardware Based on Terminal Design	
3.7	Automation Hardware Installations	

3.8	Data Acquisition Setup	
3.9	Terminal System Integration into Centralised System	
3.10	Terminal System Testing & Commissioning	
3.11	Develop & Supply Terminal User Manuals & Standard Operating Procedure Document	
3.12	Terminal System User Training & Onboarding	
3.13	Terminal UAT & Deployment	
<u>KwaZulu-Natal: Durban Point Terminal</u>		
3.14	Site Survey	
3.15	Functional Requirement Specification (Terminal Level)	
3.16	Automation Hardware Design	
3.17	Data Acquisition Design (Data Network Connectivity & Communication)	
3.18	Terminal System Design Blueprint	
3.19	Provision of All System Hardware Based on Terminal Design	
3.20	Automation Hardware Installations	
3.21	Data Acquisition Setup	
3.22	Terminal System Integration into Centralised System	
3.23	Terminal System Testing & Commissioning	
3.24	Develop & Supply Terminal User Manuals & Standard Operating Procedure Document	
3.25	Terminal System User Training & Onboarding	
3.26	Terminal System UAT & Deployment	
<u>KwaZulu-Natal: Durban Maydon Wharf</u>		
3.27	Site Survey	
3.28	Functional Requirement Specification (Terminal Level)	
3.29	Automation Hardware Design	
3.30	Data Acquisition Design (Data Network Connectivity & Communications)	
3.31	Terminal System Design Blueprint	
3.32	Provision of All System Hardware Based on Terminal Design	
3.33	Automation Hardware Installations (incl. Calibrations & Configurations)	
3.34	Data Acquisition Setup	

3.35	Terminal System Integration into Centralised System	
3.36	Terminal System Testing & Commissioning	
3.37	Develop & Supply Terminal User Manuals & Standard Operating Procedure Document	
3.38	Terminal System User Training & Onboarding	
3.39	Terminal System UAT & Deployment	
<u>KwaZulu-Natal: Durban Container Terminal Pier 1</u>		
3.40	Site Survey	
3.41	Functional Requirement Specification (Terminal Level)	
3.42	Automation Hardware Design	
3.43	Data Acquisition Design (Data Network Connectivity & Communication)	
3.44	Terminal System Design Blueprint	
3.45	Provision of All System Hardware Based on Terminal Design	
3.46	Automation Hardware Installations	
3.47	Data Acquisition Setup	
3.48	Terminal System Integration into Centralised System	
3.49	Terminal System Testing & Commissioning	
3.50	Develop & Supply Terminal User Manuals & Standard Operating Procedure Document	
3.51	Terminal System User Training & Onboarding	
3.52	Terminal System UAT & Deployment	
<u>KwaZulu-Natal: Durban Container Terminal Pier 2</u>		
3.53	Site Survey	
3.54	Functional Requirement Specification (Terminal Level)	
3.55	Automation Hardware Design	
3.56	Data Acquisition Design (Data Network Connectivity & Communication)	
3.57	Terminal System Design Blueprint	
3.58	Provision of All System Hardware Based on Terminal Design	
3.59	Automation Hardware Installations	
3.60	Data Acquisition Setup	
3.61	Terminal System Integration into Centralised System	

3.62	Terminal System Testing & Commissioning	
3.63	Develop & Supply Terminal User Manuals & Standard Operating Procedure Document	
3.64	Terminal System User Training & Onboarding	
3.65	Terminal System UAT & Deployment	
East London Multipurpose Terminal		
3.66	Site Survey Assessment	
3.67	Functional Requirement Specification (Terminal Level)	
3.68	Automation Hardware Design	
3.69	Data Acquisition Design (Data Network Connectivity & Communication)	
3.70	Terminal System Design Blueprint	
3.71	Provision of All System Hardware Based on Terminal Design	
3.72	Hardware Installations	
3.73	Data Acquisition Setup	
3.74	Terminal System Integration into Centralised System	
3.75	Terminal System Testing & Commissioning	
3.76	Develop & Supply Terminal User Manuals & Standard Operating Procedure Document	
3.77	Terminal System User Training & Onboarding	
3.78	Terminal System UAT & Deployment	
Port Elizabeth Container Terminal		
3.79	Site Survey	
3.80	Functional Requirement Specification (Terminal Level)	
3.81	Automation Hardware Design	
3.82	Data Acquisition Design (Data Network Connectivity & Communication)	
3.83	Terminal System Design Blueprint	
3.84	Provision of All System Hardware Based on Terminal Design	
3.85	Automation Hardware Installations	
3.86	Data Acquisition Setup	
3.87	Terminal System Integration into Centralised System	
3.89	Terminal System Testing & Commissioning	

3.90	Develop & Supply Terminal User Manuals & Standard Operating Procedure Document	
3.91	Terminal System User Training & Onboarding	
3.92	Terminal System UAT & Deployment	
Nggura Container Terminal		
3.93	Site Survey	
3.94	Functional Requirement Specification (Terminal Level)	
3.95	Automation Hardware Design	
3.96	Data Acquisition Design (Data Network Connectivity & Communication)	
3.97	Terminal System Design Blueprint	
3.98	Provision of All System Hardware Based on Terminal Design	
3.99	Automation Hardware Installations	
3.100	Data Acquisition Setup	
3.101	Terminal System Integration into Centralised System	
3.102	Terminal System Testing & Commissioning	
3.103	Develop & Supply Terminal User Manuals & Standard Operating Procedure Document	
3.104	Terminal System User Training & Onboarding	
3.105	Terminal System UAT & Deployment	
Cape Town Container Terminal		
3.106	Site Survey	
3.107	Functional Requirement Specification (Terminal Level)	
3.108	Automation Hardware Design	
3.109	Data Acquisition Design (Data Network Connectivity & Communication)	
3.110	Terminal System Design Blueprint	
3.111	Provision of All System Hardware Based on Terminal Design	
3.112	Automation Hardware Installations (incl. Calibrations & Configurations)	
3.113	Data Acquisition Setup	
3.114	Terminal System Integration into Centralised System	
3.115	Terminal System Testing & Commissioning	
3.116	Develop & Supply Terminal User Manuals & Standard Operating Procedure Document	

3.117	Terminal System User Training & Onboarding	
3.118	Terminal System UAT & Deployment	
Cape Town Multipurpose Terminal		
3.119	Site Survey Assessment	
3.120	Functional Requirement Specification (Terminal)	
3.121	Automation Hardware Design	
3.122	Data Acquisition Design (Data Network Connectivity & Communication)	
3.123	Terminal System Design Blueprint	
3.124	Provision of All System Hardware Based on Terminal Designs	
3.126	Automation Hardware Installations	
3.127	Data Acquisition Setup	
3.128	Terminal System Integration into Centralised System	
3.129	Terminal System Testing & Commissioning	
3.130	Develop & Supply Terminal User Manuals & Standard Operating Procedure Document	
3.131	Terminal System User Training & Onboarding	
3.132	Terminal System UAT	
3.134	Terminal System UAT & Deployment	
Saldanha Multipurpose Terminal		
3.135	Site Survey	
3.136	Functional Requirement Specification (Terminal)	
3.137	Hardware Design	
3.138	Data Acquisition Design (Data Network Connectivity & Communication)	
3.139	Terminal System Design Blueprint	
3.140	Provision of All System Hardware Based on Terminal Design	
3.141	Automation Hardware Installations	
3.142	Data Acquisition Setup	
3.143	Terminal System Integration into Centralised System	
3.144	Terminal System Testing & Commissioning	
3.115	Develop & Supply Terminal User Manuals & Standard Operating Procedure Document	

3.116	Terminal System User Training & Onboarding	
3.117	Terminal System UAT & Deployment	
Northwest Terminal (Pendoring)		
3.118	Site Survey	
3.119	Functional Requirement Specification (Terminal)	
3.120	Hardware Design	
3.121	Data Acquisition Design (Data Network Connectivity & Communication)	
3.122	Terminal System Design Blueprint	
3.123	Provision of All System Hardware Based on Terminal Design	
3.124	Automation Hardware Installations	
3.125	Data Acquisition Setup	
3.126	Terminal System Integration into Centralised System	
3.127	Terminal System Testing & Commissioning	
3.128	Develop & Supply Terminal User Manuals & Standard Operating Procedure Document	
3.129	Terminal System User Training & Onboarding	
3.130	Terminal System UAT & Deployment	
Northern Cape Terminal (Lohatla)		
3.131	Site Survey	
3.132	Functional Requirement Specification (Terminal)	
3.133	Hardware Design	
3.134	Data Acquisition Design (Data Network Connectivity & Communication)	
3.135	Terminal System Design Blueprint	
3.146	Provision of All System Hardware Based on Terminal Design	
3.137	Automation Hardware Installations	
3.138	Data Acquisition Setup	
3.139	Terminal System Integration into Centralised System	
3.140	Terminal System Testing & Commissioning	
3.141	Develop & Supply Terminal User Manuals & Standard Operating Procedure Document	
3.142	Terminal System User Training & Onboarding	

3.143	Terminal System UAT & Deployment	
Mpumalanga Terminal (Kendal)		
3.144	Site Survey	
3.145	Functional Requirement Specification (Terminal)	
3.146	Hardware Design	
3.147	Data Acquisition Design (Data Network Connectivity & Communication)	
3.148	Terminal System Design Blueprint	
3.149	Provision of All System Hardware Based on Terminal Design	
3.150	Automation Hardware Installations	
3.151	Data Acquisition Setup	
3.152	Terminal System Integration into Centralised System	
3.153	Terminal System Testing & Commissioning	
3.154	Develop & Supply Terminal User Manuals & Standard Operating Procedure Document	
3.155	Terminal System User Training & Onboarding	
3.156	Terminal System UAT & Deployment	

<u>SECTION 4 MAINTENANCE & SUPPORT</u>		
4.1	Full System Automation Hardware & Dashboard Maintenance & Support for 36 months	
4.2	Skills Transfer Training <i>*note: post go live</i>	

Total Price Excluding VAT

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