

PROVISION OF ZERO-MAN ENTRY & AUTO-TANK CLEANING & SLUDGE REMOVAL,
TREATMENT & MANAGEMENT SERVICES AT SELECTED RENAISSANCE FACILITIES

(RENAISSANCE Contract / Tender Nos.: CW-68582 / CW-515913)

DOCUMENT TITLE: PROJECT PRE-MOBILIZATION INSPECTION PLAN (PMIP)



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PRE-MOB INSPECTION PLAN - TABLE OF CONTENTS (TOC)

<u>SECTION DESCRIPTION</u>	<u>PAGE NO.:</u>
1.0 INTRODUCTION TO SWDA's PRE-MOB INSPECTION PLAN (PMIP)	3
1.1 Purpose of SWDA's Pre-Mob Inspection Plan	3
2.0 SUMMARISED PROJECT SCOPE OF WORK (SOW)	3
2.1 Summary of Project Scope of Work (SOW)	4
2.2 Summary of Tanks to be Cleaned	4
2.3 Summary of Waste Management Services to be Performed	5
3.0 SUMMARY OF TANK CLEANING EQUIPMENT FOR PRE-MOB INSPECTION	5
3.1 Description of Project Equipment for Renaissance Pre-Mob Inspection	6
3.2 Description of Tank Cleaning Equipment Pre-Mob Inspection Procedures ...	7
4.0 SUMMARY OF PPEs & CONSUMABLES FOR PRE-MOB INSPECTION	8
4.1 Description of Project PPEs & Consumables for Pre-Mob Inspection	8
4.2 Description of PPEs & Consumables Pre-Mob Inspection Procedures	9
5.0 SUMMARY OF TANK CLEANING PERSONNEL FOR PRE-MOB INSPECTION	10
5.1 Description of Project Personnel for Renaissance Pre-Mob Inspection	10
5.2 Description of Project Personnel Pre-Mob Inspection Procedures	10
6.0 SWDA MOBILIZATION PLAN FOR ALL PROJECT EQUIPMENT & PERSONNEL	11
Figure 1 – SWDA ATC & NME Tank Cleaning Project Implementation Organogram	12
Figure 2 – SWDA ATC & NME Tank Cleaning Project Subcontractors Organogram	13
Table 1 – SWDA List of All Renaissance Tanks, Contents & Location Particulars	14
Table 2 – SWDA Tank Cleaning Equipment Pre-Mob List	15
Table 3 – SWDA Tank Cleaning HSE, PPEs & Consumables Pre-Mob List	17
Table 4 – SWDA Tank Cleaning Personnel Crew Pre-Mob List	18

Pre-Mob Inspection Plan - For Zero-Man Entry & Auto-Tank Cleaning Services at Selected Renaissance Facilities

SWDA & RENAISSANCE NME 18-TANK CLEANING PROJECT – SPECIFIC PRE-MOB INSPECTION PLAN

1.0 INTRODUCTION TO SWDA'S PRE-MOB INSPECTION PLAN (PMIP)

South West Design Africa Limited's (**SWDA**) Team has recently been awarded, from Renaissance Africa Energy Company (**RAEC**), an 18-Tank No-Man Entry (**NME**) Tank Cleaning, Sludge Treatment, Oil Recovery & Waste Management Project, which shall be performed over the next two (2) to three (3) years at four (4) different locations in Nigeria. **SWDA** has performed many Tank Cleaning & Sludge Management Projects across Nigeria, both on & off-shore, and we have successfully performed various ATC & NME Tank Cleaning Projects across Nigeria as well.

SWDA is a Leader within the Nigerian Oil & Gas Industry, and we strictly follow all Client (**Renaissance**) Pre-Mobilization requirements & Inspections. **SWDA** has prepared this Project Pre-Mobilization Inspection Plan (**PMIP**) in accordance with our experience performing Tank Cleaning Projects with Renaissance and other major Oil Companies. **SWDA** realizes that once we receive our Formal Award of this ATC & NME Tank Cleaning Project, Renaissance shall immediately schedule a mandatory Equipment, Consumables & Personnel Pre-Mobilization Inspection of our proposed ATC & NME & pneumatic Tank Cleaning Equipment & Personnel, which shall be held at our **SWDA** Warehouse located at Kidney Island in Port Harcourt, Rivers State, Nigeria.

1.1 Purpose of SWDA'S Pre-Mob Inspection Plan

Based upon a detailed review of the Tank Cleaning Project Scope of Work (**SOW**), **SWDA** has prepared this Project Pre-Mobilization Inspection Plan (**PMIP**) to provide the Lists of Equipment, Consumables & Personnel that we intend to mobilize on this Project to achieve the Renaissance Project Objectives. The purpose of this **PMIP** is to provide a Summary of those Equipment, Consumables & Personnel and to summarize the requirements and procedures which shall be employed during the upcoming Renaissance Pre-Mobilization Inspection, which is required to screen, inspect and approve those items for Final Mobilization & Kick-Off of the Project at our first Tank Cleaning Site.

SWDA shall gather all the requisite Tank Cleaning Equipment & Consumables for Renaissance's Inspection at our Kidney Island Warehouse, and we shall provide all the requisite Personnel CVs, Certificates & Permits necessary for Mobilization Approval. The Renaissance Pre-Mob Inspection procedures are detailed and summarized below, and **SWDA** shall follow these Pre-Mob procedures strictly to ensure a timely & seamless Project Mobilization.

2.0 SUMMARIZED PROJECT SCOPE OF WORK (SOW)

The Scope of Work (**SOW**) for this Renaissance ATC & NME Tank Cleaning, Sludge Treatment, Oil Recovery & Waste Management Project is based upon the Contract & Tender ITT Documents, and is summarized below. This Project shall be executed in accordance with all Renaissance requirements, guidelines & standards, in line with international industry standards, to achieve the Project objectives.

As one can see within the Project **SOW**, the first Task includes the preparation of these various Project Work Plans, and to perform a mandatory Project Equipment, Consumables & Personnel Pre-Mobilization Inspection to gain Renaissance approval for full Project Mobilization & commencement. This **PMIP** Plan is also provided as guidance for the requisite Pre-Mob procedures to be followed during this mandatory Renaissance Pre-Mob Inspection and to avoid any miscommunications with our Client about who or what shall be mobilized to the Project sites. **SWDA** provides the following Project **SOW** Summary to identify how we shall perform the Pre-Mob Inspection & the implementation of the Project to achieve a successful Project result.

2.1 Summary of Project Scope of Work (SOW)

Based upon the Instructions To Tenderers (ITT) & Contract Documents within the **Renaissance** Contract / Tender Nos.: CW-68582 / CW-515913, **SWDA** describes the prescribed Project Scope of Work (**SOW**) to include the following Main Tasks to be performed to successfully prepare, clean, de-sludge & properly manage all Project-derived Oily Wastes during this Tank Cleaning Project, as follows:

- Preparation of Pre-Mob Work Plans (**HSE, HAZID, PIP, QA / QC, WMP, Pre-Mob Inspection Test Plan, Security Plan, Community Engagement Plan & Journey Mgmt. Plans**) & Renaissance Pre-Mob Inspections & approval of requisite personnel & equipment for Project Mobilization;
- Land & Marine Mobilization of Renaissance pre-mobbed personnel, equipment & materials and initial Tank Site set-up activities;
- Implementation of all pipe connections necessary, removal of Sludge from Tank using Zero-Man Entry (**NME**) & Automatic Tank Cleaning (**ATC**) means and perform all Safety Requirements defined by **SWDA** & agreed by Renaissance for the process;
- Processing of Sludge & transfer of Oil into Renaissance-designated pipeline, transfer of all Oil-impacted sands to Renaissance-designated area and disposal of Oil-impacted water into appropriate Renaissance-designated location; and,
- De-Mobilization of all personnel & equipment from one Tank Site to another & provision of Final Project Report to Renaissance & NUPRC.

2.2 Summary of Project Tanks to be Cleaned

Based upon the Renaissance ITT & Contract Documents, and for the purposes of this **PMIP** Plan, **SWDA** has developed the below-attached **Table 1** to summarise the known and assumed (**Sludge 1.0 Meter [M] Depth per Tank**) Tank particulars, which shall guide the Project & Waste Management arrangements per Tank Site, as modified by the Pre-Mob Tank Site Inspection data:

- Eighteen (**18**) Tanks are included within the Tank Cleaning Scope of Work (**SOW**) – Situated at four (**4**) Nigerian Renaissance Facility locations (Bonny – 8 Tanks, Forcados – 8 Tanks, Gbaran – 1 Tank and Soku – 1 Tank);
- Eight (**8**) Crude Oil Storage Tanks (**COTs**) & ten (**10**) Process Tanks (**PTs**) are included, with nine (**9**) Floating-Roofs & nine (**9**) Fixed-Roofs, ranging in Size from **1,060-M³** to **104,707-M³** (See attached below **Table 1 – Tank & Contents Particulars**); and,
- No actual sludge depth or consistency data was provided by Renaissance, so for costing & planning purposes, **SWDA** has estimated a 1.0 Meter (**M**) depth of Sludge per Tank, and all SPDC Tank data & **SWDA** assumptions indicate a total estimated Sludge Volume of approximately **41,037-M³** or up to **51,101 Tons** of Sludge to be cleaned & all recovered Oil returned to Renaissance-designated areas.

2.3 Summary of Project Waste Management Services

In accordance with the Renaissance-provided Scope of Work (**SOW**), designated as the **“Zero-Man Entry (NME) & Auto-Tank Cleaning (ATC) System”**, complete with Sludge collection by suction systems, sludge rinsing & Oil recovery and waste management services shall be minimized; however, **SWDA** shall still be held responsible for proper Waste Management Services during the implementation of this Tank Cleaning Project. Therefore, Oily Wastes shall be properly & methodically collected, treated, managed & distributed to Renaissance-designated locations, as follows:

- The residual Sludge within each Tank to be cleaned, shall be recovered through the ATC Suction Module (**M1**), shall pass through an Oil separation phase within the ATC Separation Module (**M2**), the remaining Sands shall be collected & all Oil shall be collected within the ATC Skimming Module (**M4**) and recovered;
- If the residual Sludge is unpumpable, then Renaissance shall provide **“Cutter Stock”** to be added to the Tank Sludge through the ATC Recirculation Module (**M3**) to enable steady Sludge flow through the ATC Suction Module (**M1**) with agitation by means of the **“Single Nozzle Sprayers - SNSs”** mounted on the Tank’s Roof;
- Tank Rinse / Wash Water shall be routed into the Tank Sludge through the ATC Recirculation Module (**M3**) & the series of Spray Nozzles, and the Oil shall be recovered through the ATC Skimming Module (**M4**), and once each Tank rinsing is complete, the final Rinse Water is treated on-site & disposed at the Renaissance-designated location;
- Sands rinsed out of the Oily Sludge shall be recovered through the ATC Tri-Decanter & high-speed Centrifuge, and shall be contained within 1-tonne woven bags and/or 2.5-M³ Waste Skips, which shall be periodically transported in bulk for disposal at Renaissance-designated locations; and,
- All Recovered Oil from the ATC Skimming Module (**M4**), shall be properly stored in Renaissance-designated Tanks on-site, until transfer via vacuum trucks delivery to Renaissance-designated pipelines for re-introduction pumping.

3.0 SUMMARY OF TANK CLEANING EQUIPMENT FOR PRE-MOB INSPECTION

Due to the hazardous nature of the subject petroleum storage tanks, the requisite equipment to be used for the Tank Cleaning Projects are the ATC NME & pneumatic air-driven type that can be used in both Zones 0 and 1, and so the following specialized Tank Cleaning Equipment shall be Pre-Mobbed:



SWDA's ATC NME Tank Cleaning 4 Modules Mobilized to Tank Site in Ireland.



ATC NME Tank Cleaning Modules being Set-Up at Tank Cleaning Site.

3.1 Description of Project Equipment for Renaissance Pre-Mob Inspection

Based upon the hazardous nature of the Petroleum Storage Tank atmospheres that are exhibited during Tank Turn-Around Maintenance (**TAM**), as stated above, the most advanced & safest Equipment to most-efficiently clean large ASTs, is the ATC No-Man Entry (**NME**) System to clean the Tank, treat the residual Sludge and recover the Oil. Once the Tank is cleaned with the ATC System, then Manned-Entries are allowed for final Tank polishing & inspections. At this point, additional pneumatic air-driven Tank Cleaning equipment is utilized with supplied-air for the Tank Entrants, along with Rescue Teams in place for any unforeseen instances where personnel must be removed safely & quickly from the Tank. In addition, various Personal Protective Equipment (**PPE**) and Health, Safety & Environmental (**HSE**) equipment is also utilized on a daily basis to ensure that these Tank Cleaning Operations are conducted in the Safest manner possible.

Therefore, **SWDA** shall gather all of our ATC, pneumatic & consumable equipment (**PPE & HSE Equipment**) at our Warehouse located in Kidney Island in PHC. We shall then arrange the **RAEC** mandatory Equipment & Consumables Pre-Mob Inspection to gain Renaissance Approval to commence the Project. The following is a Summary List of the Tank Cleaning Equipment that shall be inspected and approved by Renaissance, as described below & further detailed on the **“End of Plan-attached Table 2 – List of SWDA Tank Cleaning Equipment to be Pre-Mob Inspected”**:

S/N	SUMMARY LIST OF TANK CLEANING EQUIPMENT FOR PRE-MOB INSPECTION BY RENAISSANCE REPS
1	4-Module No-Man Entry (NME) Auto-Tank Cleaning (ATC) System & Sludge Mgmt. Equipment & 2-YRS Spare Parts (or Equivalent Semi-Auto System)
2	Air-Loader Pump (also known as Vacuum Recovery Unit), 900 CFM & 1,200 CFM
3	Air Compressor – 1,600 CFM operating @ a pressure of 10 bar
4	Air Accumulator
5	Pneumatic Air Dryer
6	Mariner 320-E Breathing Air Compressor
7	PAS Air Pack 1
8	Heavy-Duty Flapper / Sandpiper Pump
9	Pneumatic Ventilators or Exhaust Fans with Ducting
10	High-pressure Pumps & 2”, 3” & 4” Hoses with Brass Quick-Connections
11	Nozzles for the High-pressure Pumps
12	Explosion-proof Lighting
13	Self-Contained Breathing Apparatus (SCBA)
14	Fire Extinguishers & Brass Buckets, Shovels, Scrapers & Packers
15	MSA Altair 5X Gas Detectors
16	Approved Hand-held Radios
17	Emergency Eye Wash & 1 st Aid Stations
18	Emergency Alarm System (Sirens)



VARIOUS TANK CLEANING EQUIPMENT PRE-MOB INSPECTION ACTIVITIES

ANCILLARY TANK CLEANING EQUIPMENT



1,600-CFM Air Compressor



Air-Loader Vac Sludge Pump



Breathing Air Generator



BA Air Accumulator Tank



Sandpiper / Wilden Sludge Pump



BA Hose Trolley

3.2 Description of Tank Cleaning Equipment Pre-Mob Inspection Procedures

Once the **SWDA** Tank Cleaning Equipment has been successfully gathered at our warehouse located in Kidney Island in PHC, **SWDA** shall contact Renaissance for the performance of the mandatory Pre-Mob Inspection to take place. Once Renaissance schedules the Pre-Mob Inspection, the following readiness & integrity Inspection procedures shall be strictly followed (**See Attached Table 2**):

- **ATC Tank Cleaning Modules (4)** – The Renaissance Inspection Reps shall verify that all connections are properly in place; verify that the rotary Jets & Nozzles are clear of debris; and, verify that all power systems are certified up to date, greased & operable;
- **Hoses & Fittings** – The Renaissance Reps shall inspect our high-pressure Hoses for integrity & leaks, verifying connections are intrinsically-safe, etc.; and, inspecting new gaskets & **“O-Rings”** are in place. Then, for each Hose inspected, once Passed the Inspection, they will enable the **“Lock-Out / Tag-Out”** procedures, resulting in all Passed Equipment bearing these Certification Tags;
- **Pumps, Blowers & Power Sources** – The Renaissance Reps shall also check the Operational Status of all pumps, blowers & power sources, to ensure **“Ready for Use”** & certify these equipments;
- **Leak Detection** – The Renaissance Reps shall inspect all Power Units for Leak Detection for Fuel & Hydraulic fluids & all must be calibrated & issued **“Ready for Use Certificates”**;
- **All Air-Driven Equipment** – The Renaissance Reps shall also check & verify the integrity & no Leaks for these Air-Driven Tank Cleaning equipment, to verify that the requisite high pressures can be maintained for the Tasks on job, and these equipments shall be calibrated & issued Certificates, as well;
- **All SCBA’s, Air Tanks & Fire Extinguishers** – The Renaissance Reps shall check that all compressed air & Fire-Fighting Extinguishers shall be calibrated & issued **“Ready for Use Certificates”**, as well; and,
- **All Heavy-Lifting Equipment** – The Renaissance Reps shall also witness that all Lifting-Lugs be physically-checked by Lifting Tests with Forklift or Crane at Kidney Island Base, and be issued **“Ready for Use Certificates”** during this Pre-Mob Inspection.

4.0 SUMMARY OF PPEs & CONSUMABLES FOR PRE-MOB INSPECTION

In addition to the **SWDA** Tank Cleaning Equipment, the Renaissance Reps shall also inspect & certify all the gathered **“Consumables”**, comprised of Health, Safety & Environmental (**HSE**) Equipment & Personal Protective Equipment (**PPE**) & Materials which have be earmarked for Mobilization to the Tank Sites. See below a Summary of the likely **“HSE / PPE Consumables”** that shall be utilized for the Safe Operation of this Tank Cleaning Project (**See Attached Table 3 at end of PMIP for the Consumables Detailed List**).

4.1 Description of Project PPEs & Consumables for Renaissance Pre-Mob Inspection

Once the Renaissance Pre-Mob Inspection Representatives arrive at the **SWDA** Warehouse in Kidney Island in PHC to perform the mandatory Pre-Mob Readiness Inspection, and when they have completed their Inspections of all of our Tank Cleaning Equipment, they shall equally inspect for Safety & Verification all the Consumables, HSE & Personal Protective Equipment (**PPEs**) to be used during the Tank Cleaning Projects, which shall include, but are not limited to, the following:

S/N	SUMMARY LIST OF HSE CONSUMABLES & PPEs FOR PRE-MOB INSPECTION BY RENAISSANCE REPS
1	Hard Hat
2	Safety Glasses
3	Various Hand Gloves
4	Disposable Coveralls over Fire-Retardant Coveralls
5	Oil Absorbent Pads, Rolls & Booms
6	Steel-Toed Safety Boots & Steel-Toed Rubber Rain Boots
7	Approved Rain Gear (Up & Down)
8	Approved Intrinsically-Safe Brass Shovels, Scrapers, Buckets & Squeegies
9	Approved 1-Tonne Woven Bags for Sand Conveying and/or Waste Skips
10	Approved Self-Contained Breathing Apparatus (SCBA) & Respirators & Cartridges, as required during Post-NME Phase during Final Mop-Up

4.2 Description of Tank Cleaning PPEs & Consumables Pre-Mob Inspection Procedures

During the Renaissance mandatory Pre-Mobilization Inspection Exercise of the **SWDA** Tank Cleaning Equipment, the Renaissance Reps shall also inspect & certify the various Health, Safety & Environmental (**HSE**) Equipment & Materials and the Personal Protective Equipment (**PPE**) necessary to successfully carry out the various Tank Cleaning Projects, and this event shall take place on a Renaissance-appointed date in Port Harcourt, at our **SWDA** Kidney Island Warehouse. After the successful exercise, Pre-Mob Clearance Stickers shall equally be affixed or written on all the inspected & verified Consumable Equipment. The following summarised list shall indicate the likely Consumables to be arranged for this Tank Cleaning Project, and the Pre-Mob Inspection procedures shall include, but not be limited to, the following:



VARIOUS TANK CLEANING PPEs & CONSUMABLES PRE-MOB INSPECTION ACTIVITIES

- **Atmospheric Testing Equipment** – The Renaissance Pre-Mob Reps shall also inspect All Multi-Gas Detectors (**O₂, LEL, H₂S & CO**), which shall be tested, calibrated & Pre-Mob Acceptance Certificates shall be affixed onto each device;
- **Confined Space Entry (CSE) Gear** – The Renaissance Reps shall inspect & check integrity of all Rescue Access Team's (**RAT**) Confined Space Entry (**CSE**) Tripods, Rescue Winches & Full-Body Harnesses for "**Ready for Use**" Certification & tagging;
- **Intrinsically-Safe Comms & Cameras** – The Renaissance Reps shall also inspect the **SWDA** on-site Communications devices (**Hand-Held Motorola Radios – 20-KM Range**) & our Digital Cameras for operability & to ensure they are all Intrinsically-Safe for the proposed Work Zones, prior to certification; and,

- **Personal Protective Equipment (PPE)** – The Renaissance Reps shall also inspect & ensure that there exists adequate & approved supplies of all requisite Personal Protective Equipment (PPEs) that shall endure for the 1st one (1) month of Operations.

5.0 SUMMARY OF TANK CLEANING PERSONNEL FOR PRE-MOB INSPECTION

During this mandatory Renaissance Pre-Mob Inspection, the Renaissance Reps shall also inspect & evaluate all **SWDA's** proposed Tank Cleaning Crew Members for **“Fit-For-Duty - FFD”** Certificates, Training Documentation & Certification verifications. The proposed **SWDA** Tank Cleaning Crew must be well-experienced and have significant past experience in Tank Cleaning Projects, and the Renaissance Reps shall inspect & evaluate the following during this Pre-Mob Inspection exercise.

5.1 Description of Project Personnel for Renaissance Pre-Mob Inspection

In accordance with Renaissance ITT & Contract Documents and Industry-standard operating procedures, **SWDA** has assembled a stalwart & experienced Tank Cleaning Crew for this ATC & NME Tank Cleaning Project. See below attached **Figure 1 – Project Operational Organization Chart**, which indicates the individuals and their positions on our Tank Cleaning Team. **SWDA** has & upon Award, shall again provide to Renaissance Inspectors all the CVs of these professionals, including all the requisite Certificates & Permits for their assessment & approval prior to Project Mobilization.

5.2 Description of Project Personnel Pre-Mob Inspection Procedures

During the above-described Renaissance Pre-Mob Inspection of **SWDA's** Project Equipment & Consumables, Renaissance Inspectors shall also collect from **SWDA** all our proposed Tank Cleaning Crew Members' CVs, Medical Clearance Certificates & Permits for evaluation and provision of **“Fit-For-Duty – FFD”** Approval prior to **“Mobilization Notice to Proceed”** to the 1st Tank Site for Project Commencement. During this part of the Renaissance Pre-Mob Inspection, the Renaissance Reps shall perform various evaluations of Personnel, transport Trucks & Emergency Equipment required for a safe & successful execution of the Project, and these procedures include, but are not limited to, the following:

- **Crew Members' Operating Certificates & Permits Assessment** – The Renaissance Inspection Reps shall collect & evaluate the **SWDA**-provided Tank Cleaning Crew Members' CVs, Medical Fit-For Duty – FFD Certificates & all requisite professional Permits for Mob Approval (BOSIET, OSP, CSE, Respirator Fit Testing & FFD Med Certificates);
- **Job Hazard & Safety Analysis (JH&SA)** – The Renaissance Reps shall ensure that the **SWDA**-provided Job Hazard & Safety Analysis (JH&SA) & Project Implementation Method Statement are reviewed, approved & signed by a Renaissance Rep prior to the provision of **SWDA's** Mobilization Notice to Proceed (NTP);
- **Use of Bonded Trucks** – The Renaissance Reps shall also inspect the proposed use of all Waste Transport Trucks to verify that they are all **“Bonded HazWaste Transport Trucks”** with all proper documentation;
- **Associated Use of Spill Response Kits** – The Renaissance Reps shall also ensure that any & all Spill Response Kits (**Drums of Absorbent Materials & Clean-up Tools**) are deployed alongside of all Tank Cleaning equipment; and,
- **All Vehicle Inspections** – The Renaissance Reps shall finally inspect all **SWDA**-proposed Project Vehicles (**Cars, SUVs & Trucks**) for: Check Tires, Brakes, Reverse Alarms & Fire Extinguishers, along with requisite Licenses, Permits & Stickers for operation in the proposed Tank Site location area. Then once All is Approved, Renaissance shall provide **SWDA** with our Mobilization Notice to Proceed (NTP) to commence the Project.

6.0 SWDA MOBILIZATION PLAN FOR ALL PROJECT EQUIPMENT & PERSONNEL

Based upon the anticipated successful Renaissance Pre-Mob Inspection to be performed at **SWDA's** Kidney Island Warehouse in PHC, after this Project Award & Notice to Proceed (**NTP**) is received, we shall mobilize all above-described & Pre-Mob-Approved Tank Cleaning Equipment, Consumables & all Pre-Approved Crew Members to the first Renaissance-identified Tank Site within 72-HRS of the receipt of our official Notice to Proceed (**NTP**). In addition, our specialized No-Man Entry (**NME**) ATC Tank Cleaning equipment, which are containerized in 4-Main 20-FT Containers (**Modules - M1 to M4**) & 4-Support Containers shall also be mobilized to the identified Tank Site within 96-HRS of receipt of our RAEC-provided Notice to Proceed (**NTP**), and shall include, but not be limited to, the following:

- 1) Auxiliary Container 20-FT, capacity 23 Tons (containing pipes, the Suction Module [**M1**], air compressor and electrical panel), with power rating 1-KW;
- 2) Recirculation Module (**M3**), Container 20-FT, capacity 17 Tons & power rating 88-KW;
- 3) Frequency Converter & Power Stabilizer;
- 4) Office Container 20-FT, capacity 6 Tons & power rating 4-KW;
- 5) Nitrogen Generator, Container 20-FT, capacity 10 Tons & power rating 96-KW;
- 6) Separation Module (**M2**), Container 20-FT, capacity 10 Tons & power rating 87-KW;
- 7) Skimming Module (**M4**), Container 20-FT, capacity 6 Tons & power rating 2-KW; and,
- 8) Spare Parts Container of 20-FT, capacity 5 Tons, with no power usage.



ATC SUCTION MODULE-1



ATC SEPARATION M-2



ATC 3-PHASED DECANTER



HIGH-SPEED CENTRIFUGE

Therefore, the required ATC System operational Total Power Rating is 293 KW (**385.52 HP or 366.25 KVA**), and the requisite current is 415V, 50Hz & 3-Phase. For Safety reasons, the power supplied by our Client Renaissance to run the ATC equipment should be slightly higher than this.

Based upon the Project Scope of Work (**SOW**) as summarised above, **SWDA** has identified the Host Communities surrounding the various four (**4**) Project Site locations, in an effort to understand the types of Sites and associated Host Communities that we shall engage prior to and during the implementation of this ATC NME Tank Cleaning Project. **SWDA** shall identify and determine the various Project Sites, their differing physiographic features, and enumerate the various Host Communities surrounding each distinct site location, which **SWDA** shall engage for assistance and representation during this Tank Cleaning Project (**See Separate Community Engagement Plan – CEP & Security Enhancement Plan - SEP**). In addition, Renaissance Reps shall also review & approve the use of **SWDA's** proposed Subcontractors for various Project Support Services (**See attached Figure 2**).

-- SEE FIGURES 1 & 2 and TABLES 1 to 4 BELOW --

FIGURE 1
**SWDA – RENAISSANCE 18-TANKS – ATC / NME TANK CLEANING,
 SLUDGE TREATMENT & OIL RECOVERY PROJECT ORGANOGRAM**

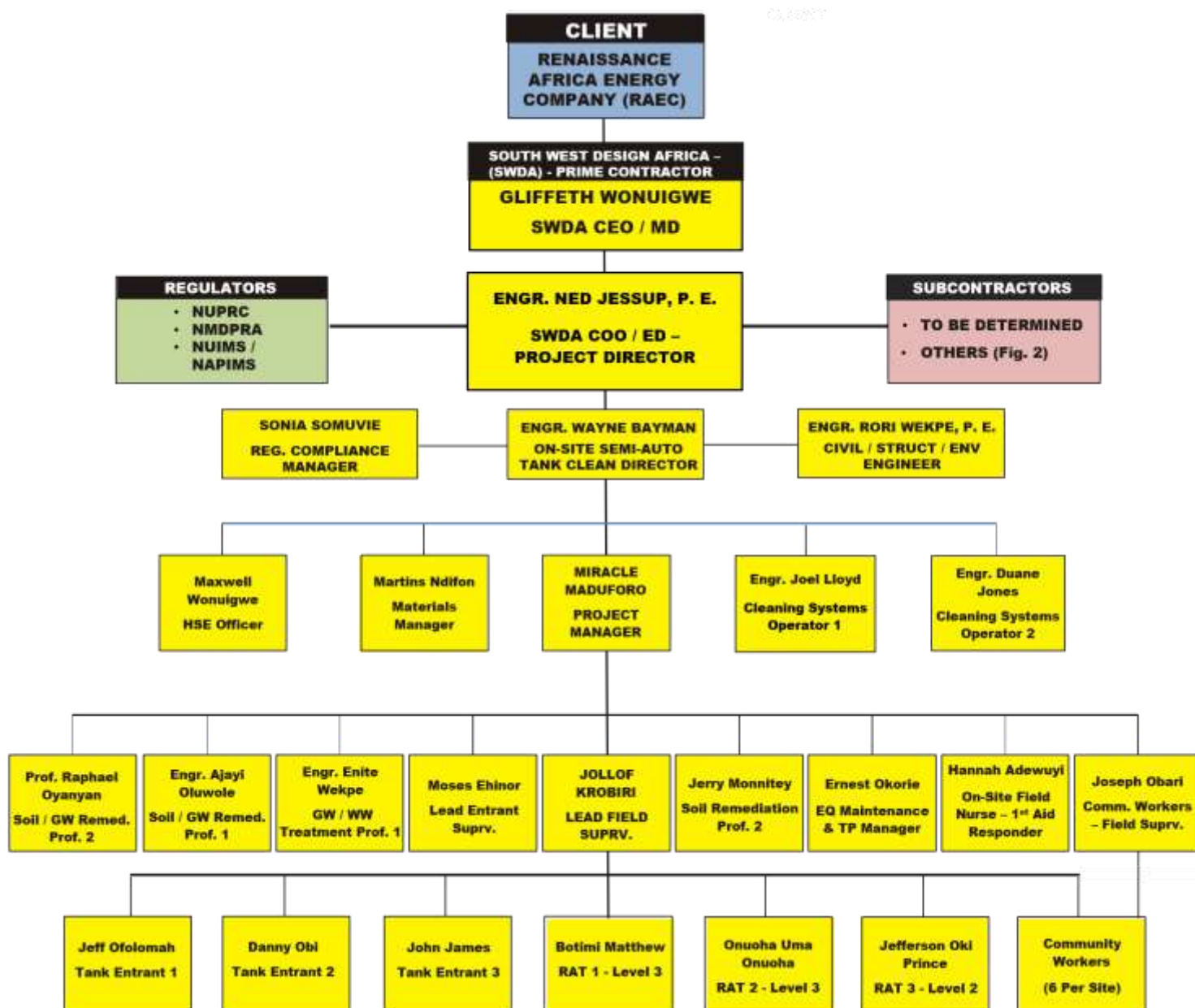


FIGURE 2
SWDA – RENAISSANCE TANK CLEANING & SLUDGE RECYCLING
PROJECT – SUBCONTRACTORS ORGANIZATION CHART

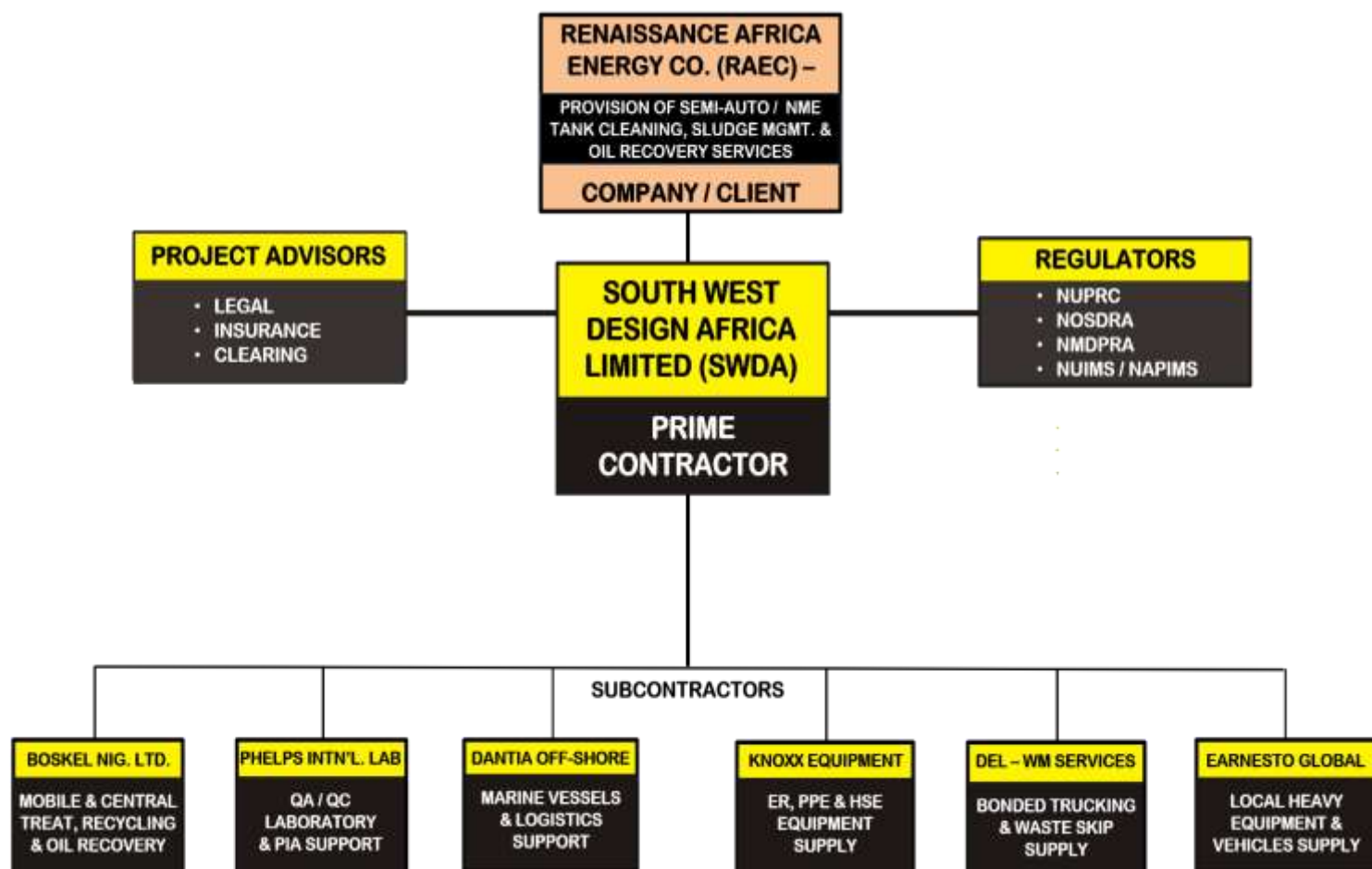


TABLE 1 - RENAISSANCE TANK CLEANING CONTRACT NO.: CW-68582 - TANK & CONTENTS PARTICULARS LIST

SWDA - RENAISSANCE 18-TANK SEMI-AUTO & MANUAL TANK CLEANING & SLUDGE REMOVAL PROJECT - 17 / 7 / 2026

(PLEASE NOTE THAT THESE ESTIMATED VOLUMES ARE NOT CORROBORATED BY RENAISSANCE, AWAITING TANK AS-BUILT DRAWINGS, MERELY OUR ESTIMATES FOR PLANNING PURPOSES.)

S/N	TENDER TANK NO.	RENAISSANCE TANK LOCATION	TYPE OF TANK OPS	ROOF TYPE	TANK DIAMETER (M)	TANK DEPTH (M)	EST. TANK VOLUME (M ³)	EST. TANK 80% CAPACITY (Bbls)	SLUDGE LIKELY TYPE & CONSISTENCY	EST. SLUDGE VOL. (Est. M ³ @ 1.0 M Depth)	EST. SLUDGE VOL. (@ 6.29 Bbls / M ³)	EST. SEMI-AUTO & MANUAL CLEAN (Days)
1	Tank 9	Bonny Tank Farm - 10 KMs South of PHC	Crude Oil Storage	Floating Roof	48.8	22.1	41,335.0	207,998.0	Flowing & Mucky to Dry Sludge	1,870.4	11,764.8	30
2	Tank 11	Bonny Tank Farm	Crude Oil Storage	Floating Roof	67.1	19.0	67,187.7	338,088.5	Flowing & Mucky to Dry Sludge	3,536.2	22,242.7	50
3	Tank T-1201-A	Bonny	Processing Tank	Fixed Roof	30.0	10.5	7,422.03	37,347.7	Flowing to Dry Sandy Sludge	706.9	4,446.4	20
4	Tank T-1201-B	Bonny	Processing Tank	Fixed Roof	30.0	10.5	7,422.03	37,347.7	Flowing to Dry Sandy Sludge	706.9	4,446.4	20
5	Tank 13	Bonny	Crude Oil Storage	Floating Roof	67.1	19.0	67,187.7	338,088.5	Flowing & Mucky to Dry Sludge	3,536.2	22,242.7	50
6	Tank 21	Bonny	Crude Oil Storage	Floating Roof	76.3	22.9	104,706.9	526,885.1	Flowing & Mucky to Dry Sludge	4,572.4	28,760.4	60
7	Tank 22	Bonny	Crude Oil Storage	Floating Roof	76.3	22.9	104,706.9	526,885.1	Flowing & Mucky to Dry Sludge	4,572.4	28,760.4	60
8	Tank T-1401-A	Bonny	Processing Tank	Fixed Roof	30.0	10.5	7,422.03	37,347.7	Flowing to Dry Sandy Sludge	706.9	4,446.4	20
9	Tank 206	Forcados Tank Farm & Depot 39 KMs West of Warri	Crude Oil Storage	Floating Roof	76.2	21.9	99,872.3	502,557.4	Flowing & Mucky to Dry Sludge	4,560.4	28,684.9	60
10	Tank 209	Forcados Tank Depot	Crude Oil Storage	Floating Roof	76.2	21.9	99,872.3	502,557.4	Flowing & Mucky to Dry Sludge	4,560.4	28,684.9	60
11	Tank 620	Forcados Tank Depot	Processing Tank	Fixed Roof	33.5	9.8	8,637.9	43,465.9	Flowing to Dry Sandy Sludge	881.4	5,544.0	20
12	Tank 901	Forcados Tank Depot	Processing Tank	Fixed Roof	15.0	6.0	1,060.3	5,335.4	Flowing to Dry Sandy Sludge	176.7	1,111.4	15
13	Tank 203	Forcados Tank Depot	Crude Oil Storage	Floating Roof	76.2	21.9	99,872.3	502,557.4	Flowing & Mucky to Dry Sludge	4,560.4	28,684.9	60
14	Tank 102	Forcados Tank Depot	Processing Tank	Floating Roof	48.0	17.0	30,762.5	154,796.9	Flowing to Dry Sandy Sludge	1,809.60	11,382.4	30
15	Tank 601	Forcados Tank Depot	Processing Tank	Fixed Roof	30.0	12.5	8,835.8	44,461.7	Flowing to Dry Sandy Sludge	706.9	4,446.4	20
16	Tank 610	Forcados Tank Depot	Processing Tank	Fixed Roof	33.5	9.8	8,637.9	43,465.9	Flowing to Dry Sandy Sludge	881.4	5,544.0	20
17	GCPF Tank	Gbaran-Ubie Central Field - Central Bayelsa (OML-28)	Processing Tank	Fixed Roof	39.0	13.0	15,529.7	78,145.5	Flowing to Dry Sandy Sludge	1,194.60	7,514.0	25
18	SGP Tank	Soku Gas Plant - 40 KMs West of PHC	Processing Tank	Fixed Roof	30.0	18.0	12,723.5	64,024.7	Flowing to Dry Sandy Sludge	706.9	4,446.4	20
TOT	18 TANKS		8 - Crude Oil Tanks 10 - Process Tanks	9 - Floating & 9 - Fixed Roof	TOTAL VOL. OF TANKS (M ³):		793,194.79 M ³	80% CAPACITY: 3,991,357 Bbls		40,247.0 M ³	253,153.5 Bbls	640 Days - or 1.83 YRS

TABLE 2 - SWDA - 18-TANK TANK CLEANING & SLUDGE MANAGEMENT PROJECT - KI PRE-MOB EQUIPMENT LIST
SWDA - RENAISSANCE TANK CLEANING & SLUDGE MANAGEMENT PROJECT - KI EQUIPMENT PRE-MOB INSPECTION LIST - 17-7-2026

S/N	PROJECT EQUIPMENT NAME / TYPE	PROJECT EQUIPMENT DESCRIPTION	EQUIPMENT DIMENSIONS (FT)	EQUIPMENT WEIGHT (KG)	NOS. TO BE MOBBED	OPERATING / STAGING AREA	EQ INSPECTION LOCATION	EQUIP PRE-MOB INSPECT (Y/N & DATE)
1	ATC - M-1 - M-4 Modules	ATC No-Man Entry (NME) Tank Clean System (Power Rating = 1-KW)	20' x 5' x 8' 7 Different Containers	83 Tonnes (83,000-KG)	7	50-100 Meters from Tank	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
2	Semi-Auto Crawler, Hydro-Jet, Centrifuge & Oil / Water Separator	Semi-Auto Tank Cleaning System in 2 Containers	20' x 5' x 8' 2 Containers	13 Tonnes (13,000-KG)	1	50-100 Meters from Tank	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
3	Air Compressor	1,600 CFM Air Compressor & Operates at 10 Bar Pressure	17 x 9 FT	8,300 KG	1	Laydown Area	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
4	Air Accumulator	Pneumatic Air Accumulator	6 x 4 FT	1,570 KG	1	Laydown Area	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
5	Breathing Air Dryer	Pneumatic Breathing Air Dryer	4 x 3 FT	1,065 KG	1	Laydown Area	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
6	Air Loader Vacuum Pump	Pneumatic Air Vacuum Suction / Sludge Suction Pump with Certified Hoses	6 x 6 FT	1,400KG	1	Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
7	Breathing Air Generator	Pneumatic Mariner 320-F Breathing Air Generator / Compressor	3 x 2 FT	560 KG	2	Laydown Area	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
8	Breathing Air SCBA Packs	PAS Breathing Air SCBA Packs	2 x 1 FT	18 KG	8	Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
9	Sand Piper Pump	Pneumatic Heavy-Duty Flapper / Sand Piper Suction Pump	2 x 2.5 x 2 FT	55 KG	2	Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
10	Tank Ventilators / Expellers	Pneumatic Tank Ventilators and/or Ventilation Expellers Fans & Ducting (20-M)	2 x 1.5 FT	3.0 KG	4	Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
11	Air Blower	Pneumatic Air Blower	2 x 2 FT	4.0 KG	4	Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
12	Supplied Breathing Air Tanks	Self-Contained Breathing Air Apparatus (SCBA) Tanks	3 x 3/4 FT	12 KG	8	Tanks	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
13	Escape Breathing Air Tanks	Personal Emergency Escape Breathing Air Apparatus (EEBA)	1.5 x 0.75 FT	3 KG	6	Tanks	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
14	Gas Detectors	MSA Altair 5X Gas Detectors & Down-Tank Detection Hoses	1.5 x 0.75 FT	2 KG	4	Tanks	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
15	Work Lights	Explosion-Proof Work Lights	1 x 0.5 FT	1.0 KG	8	Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
16	Fire Extinguishers	Dry-Powder - 12-KG Fire Extinguishers	3 x 0.75 FT	12 KG	8	Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
17	Communication Radios	Intrinsically-Safe - Hand-held Motorola Communications Radios (20-KM Range)	0.75 x 0.5 FT	1.0 KG	8	Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award

S/N	PROJECT EQUIPMENT	PROJECT EQUIPMENT	EQUIPMENT	EQUIPMENT	NOS. TO	OPERATING /	EQ INSPECTION	EQUIP PRE-MOB
	NAME / TYPE	DESCRIPTION	DIMENSIONS (FT)	WEIGHT (KG)	BE MOBBED	STAGING AREA	LOCATION	INSPECT (Y/N & DATE)
18	Intrinsically-Safe Camera	Intrinsically-Safe Digital Camera	0.75 x 0.5 FT	1.5 KG	2	Approved Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
19	Air & Suction Hoses	Approved Air & Sludge Suction Hoses & Non-Sparking Couplings & Accessories	3/4", 2", 3" & 4" Sections 20M Each w/ Couplings	30 KG	30	Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
20	Hose Basket	Open-Topped, Container-Sized Hose Basket to Convey All Hoses to Site	20 x 5 x 4.5 FT	Empty = 2,000 KG	1	Laydown Area	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
21	Tools & Tool Box	Intrinsic Work Tools - Brass Non-Sparking Buckets, Hammers, Shovels, Scrapers & Packers	Various	50 KG	12 Each	Tanks	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
22	Equipment Transport Containers	2 x 20-FT Containers to Transport All Project Equipment - 1 Stays on Site & Other Returns	20 x 5 x 8.5 FT	Empty = 2,300 KG	2	Only 1 Remains in Laydown Area	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
23	Sludge Spill Emergency Response Mop-Up Equipment	2 x 400-L Recovery Drums filled with Absorbant Pads, Rolls & Boom, with Opening Tops	3.25 x 2.5 FT	75 KG	4 Drums	Tank & Skip Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
24	Emergency Response Bio-Surfactant	4 x 250-Liter Plastic Drum of Bio-Degradable Bio-Surfactant to Clean-up Any Spills	3.25 x 2.5 FT	200 KG	4 Drums	Laydown Area	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
25	Other Various Small Equipment & Materials for Job Performance	Various Tools, Materials & Small Equipment Necessary for the Proper Job Performance	8 x 4 FT	250 KG	Various	Laydown Area	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
26	Waste Skips	Locking-Topped Steel Waste Skips - For Waste Sludge Containment & Transport to WM Facility	1.73M x 1.55M x 0.87M	Empty = 1,230 KG	20 - 30	Laydown Area & Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
27	1st Aid Box & Contents	1st Aid Box with All Bandages, Drugs & Chems	3 x 2.5 x 2 FT	10 KG	2	Laydown Area & Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
28	On-Site Warning Signs	Various HSE & Warning Signs - Strategically Placed across Work Site - ID Work Zones	1M x 1M	40 = 10 KG	40	Laydown Area & Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
29	On-Site Emergency Alarms	On-Site Emergency Alarms (Sirens)	2 x 1 x 1 FT	4 KG	2	Laydown Area & Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
30	Safety Harnesses	Down Tank - Entrants Safety Harnesses	3 x 2 x 0.33 FT	2.0 KG	6	Laydown Area & Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
31	BA Waist Belts	Breathing Air Waist Belts	4 x 2 x 0.33 FT	1.5 KG	6	Laydown Area & Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
32	BA Hose Trolley	Rolling Breathing Air Hose Trolley	4 x 3 x 2.5 FT	40 KG	2	Laydown Area & Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
33	Diesel Fuel - Hand Pump	Portable & Manual Diesel Fuel Hand Pump	1.5 x 1 x 1 FT	6 KG	2	Laydown Area & Tank Areas	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
34	IBTC Fuel Storage Tanks (1,000 - Liter Capacity)	Portable IBTC Fuel / Waste Oil Storage Tanks	4 x 4 x 4 FT	Empty = 5 KG	6	Laydown Area	SWDA Warehouse Kidney Island, PHC	Y = Pending Award
35	Emergency Stretcher	Approved Personnel Recovery Stretcher	7.5 x 4 FT	3 KG	1	Laydown Area	SWDA Warehouse Kidney Island, PHC	Y = Pending Award

TABLE 3 - SWDA - RENAISSANCE 18-TANKS CLEANING PROJECT - KI PRE-MOB CONSUMABLES LIST
SWDA - RENAISSANCE TANK CLEANING PROJECT - KI CONSUMABLES PRE-MOB INSPECTION LIST - 17-7-2026

S/N	DESCRIPTION OF CONSUMABLE MATERIALS	TYPE OF CONSUMABLE MATERIALS (PPE / HSE)	NOS. REQ'D FOR PRE-MOB	CONSUMABLES INSPECTION LOCATION	PRE-MOB INSPECTION (Y / N & DATE)
1	Fire-Retardant Coveralls (SWDA-Branded)	Personal Protective Equipment (PPE)	86	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
2	Disposable Coveralls (Tyvek Suits)	PPE	1,000	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
3	Vented Hard Hats (White - PPE)	PPE	45	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
4	Eye Goggles (PPE)	PPE	50	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
5	Ear Protection (Muffs)	PPE	50	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
6	Safety Boots (Steel-Toed - PPE)	PPE	43	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
7	Rain Gear (Up & Down) & Rubber Boots	PPE	43	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
8	Surgical Hand Gloves (Box of 100)	Health, Safety & Env. (HSE) Equipment	20	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
9	Cotton Hand Gloves (Pairs)	HSE	480	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
10	Rubber Hand Gloves (Pairs)	HSE	100	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
11	Red Heavy-Duty Hand Gloves (Pairs)	HSE	64	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
12	Mechanix Gloves (Pairs)	HSE	64	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
13	1/2-Face Respirators & Cartridges	HSE	12	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
14	Full-Face Respirators & Cartridges	HSE	12	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
15	Large Morning Fresh	Consumable Material (CM)	20	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
16	Large Dettol Disinfectant	CM	12	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
17	Large Antiseptic Disposable Wipes	CM	20	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
18	Wire Brush - Non-Sparking	CM	10	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
19	Yellow / Red Caution Tape (7cm x 100M Roll)	HSE	5	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
20	Grey Duct Tape (Rolls)	CM	5	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
21	Industrial Bags (10 Pieces / Bag)	CM	15	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
22	Large Woven Waste Bags (1 Tonne)	CM	50	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
23	Emergency Eye Wash Stations	HSE	2	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
24	1st Aid Box Contents	HSE	2	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
25	Metallic 4-Minute Epoxy Glue	CM	4 Sets	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
26	15W40 Engine Oil (25L)	CM	2	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
27	Lube Oil Spray (WD-40)	CM	8	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
28	Rechargable "AA" Batteries for Torch Ligths	HSE	24	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
29	Charger for Rechargable "AA" Batteries	HSE	4	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
30	Marine Rope (1/2" x 100M)	CM	8	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
31	Scissors	CM	4	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
32	Tools - 24" & 36" Pipe Wrench	CM	4	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
33	Tools - Combo Spanner (24"/27"/30"/32"/36")	CM	2	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
34	Tools - 12" & 18" Adjustable Spanners	CM	4	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
35	Absorbant Pads (100 per Bag)	HSE	20	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
36	Absorbant Rolls (100 M)	HSE	4	SWDA Warehouse Kidney Island, PHC	Y - Pending Award
37	Absorbant Booms (6 per Bag)	HSE	2	SWDA Warehouse Kidney Island, PHC	Y - Pending Award

TABLE 4
SOUTH WEST DESIGN AFRICA LIMITED (SWDA) - KEY 18-TANK CLEANING PROJECT PERSONNEL LIST - 17-7-2026

RENAISSANCE CONTRACT NO.: CW-68582 - Provision of Tank Cleaning, Sludge Treatment & Oil Recovery Services at Selected Renaissance Facilities across Nigeria.

S/NO.	COMPANY PROVIDING & COY TITLE	PERSONNEL NAME	PERSONNEL DISCIPLINE	PERSONNEL LOCATION	YEARS OF EXPERIENCE	NIGERIAN (N) OR FOREIGNER (F)	CV PROVIDED (YES / NO)
1	SWDA - COO / ED & Project Director Former USEPA On-Scene Coord. (OSC) & ER	Engr. Ned Jessup, P. E.	Project Director	Abuja, Nigeria	44+	F	YES
2	SWDA - Industrial Services Lead	Engr. Wayne Bayman	Tank Clean Systems Director	Dublin, Ireland	26+	F	YES
3	SWDA - Industrial Operative	Engr. Joel Lloyd	Tank Clean Systems Operator 1	Wrexham, England	21+	F	YES
4	SWDA - Industrial Operative	Engr. Duane Jones	Tank Clean Systems Operator 2	Wrexham, England	20+	F	YES
5	SWDA - Engineering Manager	Engr. Rori Wekpe, P. E.	Civil / Structural / Env. Engr.	Abuja, Nigeria	42+	N	YES
6	SWDA - Regulatory Compliance Manager	Sonia Somuvie	Administrative & Regulatory Compliance Manager	Abuja, Nigeria	7+	N	YES
7	SWDA - Project Manager (PM)	Miracle Maduforo	PM - Field Supervisor	PHC, Rivers State	11+	N	YES
8	SWDA - Materials Manager (MM)	Martins Ndifon	MM - Field Supervisor	PHC, Rivers State	8+	N	YES
9	SWDA - Emer. Responder & Main Field Suprv.	Joseph Krobiri	Lead Field Supervisor	PHC, Rivers State	14+	N	YES
10	SWDA - Emer. Responder & Main Entrant Suprv.	Moses Ehinor	Lead Entrant Supervisor	Warri, Delta State	14+	N	YES
11	SWDA - Tank Cleaning / On-Site HSE Officer	Maxwell Wonuigwe	On-Site HSE Officer	Lagos, Lagos State	11+	N	YES
12	SWDA - Tank Cleaning / Polishing Entrant	Jeff Ofolomah	Tank Cleaning Entrant 1	PHC, Rivers State	7+	N	YES
13	SWDA - Tank Cleaning / Polishing Entrant	Danny Obi	Tank Cleaning Entrant 2	PHC, Rivers State	12+	N	YES
14	SWDA - Tank Cleaning / Polishing Entrant	John James	Tank Cleaning Entrant 3	PHC, Rivers State	10+	N	YES
15	SWDA - Tank Cleaning - Rescue Access Team	Botimi Matthew - Level 3	Rescue Access Team - RAT 1	PHC, Rivers State	8+	N	YES
16	SWDA - Tank Cleaning - Rescue Access Team	Onuoha Uma Onuoha - Level 3	Rescue Access Team - RAT 2	PHC, Rivers State	17+	N	YES
17	SWDA - Tank Cleaning - Rescue Access Team	Jefferson Oki Prince - Level 2	Rescue Access Team - RAT 3	PHC, Rivers State	7+	N	YES
18	SWDA - Waste Water (WW) Treatment Expert	Engr. Enite Wekpe	WW Treatment Prof. - 1	Lagos, Lagos State	34+	N	YES
19	SWDA - Lab QA / QC Manager	Engr. Ajayi Oluwole	Soil Remediation Prof. - 1	PHC, Rivers State	29+	N	YES
20	SWDA - Senior Hydrogeologist & Oil Plume Tracker - Former Ogoni Assessment UNEP Lead	Prof. Raphael Oyanyan	GW Remediation Prof. - 2	Yenagoa, Bayelsa	23+	N	YES
21	SWDA - Equip Transport & Maintenance Mgr.	Ernest Okorie	EQ Maintenance Manager	PHC, Rivers State	25+	N	YES
22	SWDA - Niger Delta & Ogoni Community Liaison Officer (CLO)	Joseph Obari	Community Field Supervisor	PHC, Rivers State	28+	N	YES
23	SWDA - LTDU Operator & Thermal Treatment & Recycling Expert	Jerry Monnityey	Soil Remediation Prof. - 2	PHC, Rivers State	25+	N	YES
24	SWDA - On-Site Field Nurse & 1st Aid Responder	Hannah Adewuyi	On-Site Nurse	Lagos, Lagos State	7+	N	YES
25-30	SWDA - On-Site Community Workers (6 per Site)	Various - Upon Award	Community Workers	PHC & Warri	5+	N	Pending