

ANNEXURE A

ASSET DESCRIPTION: Mess & Ablutions Alpha concrete.

ASSET LOCATION: Beach road

CITY / TOWN: Woodstock

WORK DESCRIPTION: Replace Asbestos roof.

TENDER NO: BLE/51826

ASSET NO: 02BAD71C

ITEM NO. SPECIFICATIONS PER ITEM.

ROOF

- 581 Work description: Replace ridging partly corr iron / IBR
Carefully unscrew roofing screws. Provide new ridging and fixed with screws.

- 590 Work description: fit new Sisalation aluminum foil roof insulation material
Supply and place in position across purlins and overlap to prevent any leakages

“PREVIEW COPY ONLY”

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

592 Work description: Fit new 0.80mm thick roof sheeting to steel structure
 Supply and fit IBR profile sheets 0.8mm thick. The roof sheeting shall be laid in long lengths, narrow flutes outermost, with single flute side laps. The sheeting shall be laid with side-laps on the leeward side of the prevailing wind direction. An approved side-lap sealant shall be incorporated on roofing with a pitch of less than 15 degrees. All fixing holes shall be drilled and not punched. Roof sheets shall be fixed by means of No.14 Top speed Hex Head screws 65mm LG for steel purlin. Side-lap stitching shall be effected at no more than 600mm centres with 25mm LG Top speed Hex Head screws. Sheets shall be secured to purlin for 0.8mm thick sheets, a broad guideline for Purlin Spacing is not more than 2.30m centre for single span and not more than 2.65m for double span, cantilever not more than 0.60m but must meet manufacturer specification. Spacing are dependant on both downward loading and negative suction loading caused by wind a engineer must be consulted to calculate the load (kn/m²) for the particular thickness of sheets and purline spacing for the specific project.. Use 5.5mm x 82mm self drill posy screws with 26mm galvanized bonded rubber washer. Main fasteners shall be positioned in the crown of the second and fourth narrow flutes, i.e. two fasteners per sheet per purlin. Side laps shall be secured with fasteners spaced equally between purlin and at centres not exceeding 750mm. 15mm of the broad flute of all roof sheets shall be turned up through 45 deg. at the apex to form a dam and turned down through 10 deg. at the eaves to form a drip. Contractor to measure the required length before order the IBR roof sheets.

Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced.

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.

The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

615 Work description: Apply TSW to asbestos sheets

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

ALL WORK ON ASBESTOS ROOF TO BE DONE IN ACCORDANCE WITH ASBESTOS REGULATIONS.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

Once the roof has been washed, Apply TSW in concentrate form to asbestos sheets. This will ensure that all fibres have been bound and encapsulated. The process will seal the roof and prevent fungus from gaining a substantial foothold. TSW is a very good prep for paint and will educe the quantity required. Product can be applied via an airless spray gun or a low pressure backpack sprayer. Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

The roofing can now be left as is, or paint can be applied after 72 hours. HELPLINE 082 464 1074 Chris Davidson.

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT IDENTIFICATION: Product Identification - TSW. MSDS Preparation Date: 01/07/2009

2. COMPOSITION / INFORMATION ON INGREDIENTS: Sodium Silicate in aqueous solution with additives CAS # 1344-09-8

Dangerous components: None

3. HAZARD IDENTIFICATION: Emergency Overview - Contains alkaline materials which may cause skin and eye irritation.

CAUTION: CAN CAUSE SKIN AND EYE IRRITATION WITH PROLONGED EXPOSURE. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID SWALLOWING. WASH WELL AFTER HANDLING.

PRIMARY ROUTES OF EXPOSURE ARE ADSORPTION AND INGESTION.

EYES: Irritation and some reddening of the eyes. SKIN: May cause dryness and / or tissue reddening. INGESTION: May cause gastro-intestinal upset.

4. FIRST AID MEASURES: EYES: Flush with cool running water for 15 minutes. SKIN: Wash with water for 15 minutes. INGESTION: Give large glasses of water or milk. Do not induce vomiting.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

5. FIRE FIGHTING MEASURES: Water based product which will not burn. Non flammable.

6. ACCIDENTAL RELEASE MEASURES: Avoid getting material on GLASS. If this occurs, wash immediately to remove all traces of the product. Accidental spillage. Wash thoroughly with water.

7. HANDLING AND STORAGE: Product is normally shipped in 25 litre and 210 litre plastic drums. Product may be stored in aluminium, steel, concrete, or plastic containers. Store in cool areas with original caps in place to prevent evaporation.

8. EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY PROTECTION: Use NIOSH approved respirator with alkaline vapour cartridges only if adequate ventilation is not available. PROTECTIVE GLOVES: Rubber or Plastic. EYE PROTECTION: Splash goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES: BOILING POINT: 212 DEG F (100 DEG C) PH 10.5 - 11 APPEARANCE -- Clear Fluid WATER SOLUBILITY 100% COLOUR -- None WT % SOLIDS 24 SPECIFIC GRAVITY -- 1.21 VISCOSITY -- Low

10. STABILITY AND REACTIVITY: Normally stable at temperatures above 5 degrees C. Product may cause a gelling effect to materials that contain acids or ammonia. Upon drying the crystals formed from this solution become sharp and abrasive. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION: Product is an alkaline solution, with no known chronic effects. Acute Oral Toxicity LD50 (rat) 2 000 – 3 000 mg/kg.

12. ECOLOGICAL INFORMATION: Prevent large spills from entering natural waters. 48 hour LC 50 for Fathead minnow is 11.1 mgms /L

13. DISPOSAL CONSIDERATIONS: Reuse spilled material if possible, otherwise check with local landfill requirements. Product is not regarded a hazardous material.

14. TRANSPORTATION INFORMATION: The product is not regulated as a hazardous material by the U.S. Department of Transportation.

15. REGULATORY INFORMATION: Exposure limits for Sodium Silicate Solutions have not been established by OSHA or ACGIH. Not listed on the TSCA Inventory nor, as a Carcinogen on the ASHA, IARC, or NTP lists.

16. OTHER INFORMATION: Keep out of reach of children. Product may be poured into sewers of food preparation facilities for purposes of drain unclogging.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

619 Work description: Remove asbestos roof sheets form roof

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the departmetn of labour at all times.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Area does not include roof sheet profile

Remove asbestos big six roof sheets in terms of the attached Government gazzete and asbestos regulations from the Department of labour.

Item include the spray of the top and bottom of the sheets before removing the roof sheets, Item also include spraying the overlap sections with TSW after the sheets had been removed before packing the sheets in container for disposal. All work to be done in accordance with the attached TSW specification.

All necessary scaffolding and use of ladders to remove sheets is included in the item and scaffolding and ladders will be erect, used and dismantle in accordance with the approved fall arrest and safety plan.

Before the removing of the asbestos sheets the contractor shall have the container of the registered asbestos removal company on site.

The following procedures shall be followed to prevent the release of asbestos dust into the enviroment.

- 1: Have container to pack the roof sheets in on site.
- 2: Have safety talk with staff about dangers of asbestos
- 3: Set up 10.0m wide exclution zone around building.
- 4: Issue all staf with all necessary PPE clothing and equipment.
- 5: Set up ladders and scaffolding as necessary and inspect by compitend persone before it is used by staff.
- 6: Spray both sides of sheets with TSW or simmilar aproved product.
- 7: Remove sheets in control manner with care and with out cutting or breaking sheets.
- 8: lay on ground and spray section that was cover by ovelap of sheets with TSW or simmilar aproved product.
- 9: Pack sheets in to container to be sent to aproved disposal site.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

620 Work description: Dispose of asbestos sheet and waste.

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

Pack all asbestos sheets in container as it is removed from roof, container shall be kept lock to prevent the removing of the sheets by un-authorized persons. Seal container and send to approved asbestos waste site in terms of the Environmental management Act. (Act No. 107 of 1998) and the Environmental Conservation Act (Act No 73. Of 1989) All work to be done in accordance with the attached specification and attached asbestos regulation.

Item include all cost to pack, load, transport, off load and the dumping cost.

Handling Of Asbestos Containing Material

The handling and removal of asbestos-containing materials and articles, such as asbestos cement sheets, present particular health problems as they often involve dismantling or breaking large quantities of friable materials. Such work, if any, shall be performed in accordance with the provisions of the OHS Act Asbestos Regulations, 2002 (in particular, but not limited to, Section 13 and 15) and any other international, national and local legislation, regulations as deemed applicable.

The Principal Contractor shall ensure that workers are thoroughly instructed about the precautions that need to be taken to protect health, ensure continued compliance with the OHS Act, take steps to eliminate or minimize the risks and provide adequate and correct PPE equipment.

The Principal Contractor shall ensure that asbestos cement sheets are kept intact as far as is practicable. Whole asbestos sheets shall be Sprayed with TSW prior removal and transportation. All small fragments/asbestos chips shall be wetted prior to collection, be placed into heavy duty bags and be sealed and labelled as asbestos waste.

If the roof is fitted with gutters all run off water shall be passed through a fine sieve at each down pipe outlet. The filtered run off water may be channelled into the drainage system. The residue collected in the sieves shall be placed whilst still moist into heavy duty bags (at least 150 micron (1,5mm)) thickness and be sealed and labelled as asbestos waste.

All asbestos Waste (in sheet form, chips or residue) shall be disposed of at a licensed disposal and the Principal Contractor shall obtain the necessary asbestos waste permit to dispose of such waste. The Contractor shall be required to contact hand over to Transnet freight rail project manager the original certificate for the total quantity of asbestos received by the registered dumping site, before any payment on the contract will be approved.

635 Work description: Paint expose roof timber purlin.

Item include cleaning by washing off all dirt. Remove all loose, chalky, flaking, peeling paint from wood, sand and wipe off sanding dust with damp cloth and leave to dry before applying paint.

636 Work description: Paint expose roof timber sprockets and rafters.

Item include cleaning by washing off all dirt. Remove all loose, chalky, flaking, peeling paint from wood, sand and wipe off sanding dust with damp cloth and leave to dry before applying paint.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.**FACIA/BARGE BOARDS**

- 649 Work description: Fit / Replace barge board
Carefully loosen sheet iron capping where applicable or take down and remove galvanized capping where applicable. Take down barge boards and remove from site. Where necessary cut roof sheeting to be level with purlin ends. The verges of roof to be finished with 225 x 10mm thick plain pressed fibre cement barge boards with bottom ends projecting 100mm beyond fascia board or in line with outer edge of gutter stop end, The edge of barge boards at bottom end shall be cut vertical level. The barge boards shall be securely fixed to projecting purlin ends with galvanized barge board brackets. Full length boards shall be used if necessary to joint in section of barge board the section shall not be shorter than 500mm.
- 651 Work description: Fit / Replace fascia board.
Provide 230 x 12mm nutec fibre cement fascia board. Fix nutec fascia boards to existing wood fascia boards using 2 no 8 * 38mm countersunk wood screws at 900mm intervals and 75mm from both sides of joints, one 30 mm from top edge and 30mm from bottom edge. Use right type of jointer at joints. The edge of fascia boards shall be cut vertically. Full length boards shall be used if necessary to joint in section of fascia board, these section shall not be shorter than 500mm. Fascia boards shall be fit in horizontal straight line
- 653 Work description: Paint fascia board steel / Cement fibre two coats
STEEL FASCIA BOARDS: Clean from rust and dirt by scraping or by means of steel wire brush, sand completely and wipe off all sanding dust to obtain perfectly clean surface. Spot prime all exposed metal surface with an approved metal primer and apply two coats Plascon wall and all paint of Dulux wall guard paint
CEMENT FIBRE FASCIA BOARDS WITH PAINT IN GOOD CONDITION: Clean from all dust and dirt with approved detergent and rinse with clean water. Remove all defective paint, sand completely wipe off all sanding dust with a damp cloth, spot prime all nail and screw heads and apply two coats Plascon wall and all paint of Dulux wall guard paint or approved paint for cement fibre products.
- 654 Work description: Paint Barge board steel / Cement fibre two coats
STEEL FASCIA BOARDS: Clean from rust and dirt by scraping or by means of steel wire brush, sand completely and wipe off all sanding dust to obtain perfectly clean surface. Spot prime all exposed metal surface with an approved metal primer and apply two coats Plascon wall and all paint of Dulux wall guard paint
CEMENT FIBRE BARGE BOARDS WITH PAINT IN GOOD CONDITION: Clean from all dust and dirt with approved detergent and rinse with clean water. Remove all defective paint, sand completely wipe off all sanding dust with a damp cloth, spot prime all nail and screw heads and apply two coats Plascon wall and all paint of Dulux wall guard paint or approved paint for cement fibre products.
CEMENT FIBRE BARGE BOARDS WITH PAINT IN BAD CONDITION: Remove all paint coatings back to bare surface. sand down to a smooth surface, spot prime nail and screw heads with universal undercoat and paint surfaces two coats Plascon wall and all or with two coats Dulux wall guard paint.
NEW CEMENT FIBRE BARGE BOARDS NEW
Clean, spot prime nail and screw heads with universal undercoat and paint surfaces two coats Plascon wall and all or with two coats Dulux wall guard paint.

GUTTERS/DOWNPIPES

- 660 Work description: Remove gutter and down pipe complete, including brackets,
Remove gutters brackets with care as not to damage wood sprockets

Respondent's signature: _____ **Date:** ____/____/____

TENDER NO: BLE/51826

ASSET NO: 02BAD71C

ITEM NO. SPECIFICATIONS PER ITEM.

664 Work description: Fit PVC gutters at coastal area

673 Work description: Fit PVC gutters as per manufacturers specifications

WALLS EXTERIOR

698 Work description: Do beam filling under corr iron, IBR or tile roof
Beam filling shall be half brick wide, built with same mix mortar as used in the walls and shall be cut in between roof timbers and carried up to underside of roof covering If face bricks are specified, brick shall be straight and neatly cut.

“PREVIEW COPY ONLY”

Respondent's signature: _____ Date: ____/____/____

ANNEXURE A

ASSET DESCRIPTION: Mess & ablutions

ASSET LOCATION: Voortrekker road

CITY / TOWN: Saltriver

WORK DESCRIPTION: Replace Asbestos roof.

TENDER NO: BLE/51826

ASSET NO: 02BAD61C

ITEM NO. SPECIFICATIONS PER ITEM.

ROOF

- 581 Work description: Replace ridging IBR
Carefully unscrew roofing screws. Provide new ridging and fixed with screws.
- 590 Work description: fit new Sisalation aluminum foil roof insulation material
Supply and place in position across purlins and overlap to prevent any leakages

“PREVIEW COPY ONLY”

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

592 Work description: Fit new 0.80mm thick roof sheeting to steel structure
 Supply and fit IBR profile sheets 0.8mm thick. The roof sheeting shall be laid in long lengths, narrow flutes outermost, with single flute side laps. The sheeting shall be laid with side-laps on the leeward side of the prevailing wind direction. An approved side-lap sealant shall be incorporated on roofing with a pitch of less than 15 degrees. All fixing holes shall be drilled and not punched. Roof sheets shall be fixed by means of No.14 Top speed Hex Head screws 65mm LG for steel purlin. Side-lap stitching shall be effected at no more than 600mm centres with 25mm LG Top speed Hex Head screws. Sheets shall be secured to purlin for 0.8mm thick sheets, a broad guideline for Purlin Spacing is not more than 2.30m centre for single span and not more than 2.65m for double span, cantilever not more than 0.60m but must meet manufacturer specification. Spacing are dependant on both downward loading and negative suction loading caused by wind a engineer must be consulted to calculate the load (kn/m²) for the particular thickness of sheets and purline spacing for the specific project.. Use 5.5mm x 82mm self drill posy screws with 26mm galvanized bonded rubber washer. Main fasteners shall be positioned in the crown of the second and fourth narrow flutes, i.e. two fasteners per sheet per purlin. Side laps shall be secured with fasteners spaced equally between purlin and at centres not exceeding 750mm. 15mm of the broad flute of all roof sheets shall be turned up through 45 deg. at the apex to form a dam and turned down through 10 deg. at the eaves to form a drip. Contractor to measure the required length before order the IBR roof sheets.

Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced.

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.

The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

615 Work description: Apply TSW to asbestos sheets

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

ALL WORK ON ASBESTOS ROOF TO BE DONE IN ACCORDANCE WITH ASBESTOS REGULATIONS.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

Once the roof has been washed, Apply TSW in concentrate form to asbestos sheets. This will ensure that all fibres have been bound and encapsulated. The process will seal the roof and prevent fungus from gaining a substantial foothold. TSW is a very good prep for paint and will educe the quantity required. Product can be applied via an airless spray gun or a low pressure backpack sprayer. Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

The roofing can now be left as is, or paint can be applied after 72 hours. HELPLINE 082 464 1074 Chris Davidson.

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT IDENTIFICATION: Product Identification - TSW. MSDS Preparation Date: 01/07/2009

2. COMPOSITION / INFORMATION ON INGREDIENTS: Sodium Silicate in aqueous solution with additives CAS # 1344-09-8

Dangerous components: None

3. HAZARD IDENTIFICATION: Emergency Overview - Contains alkaline materials which may cause skin and eye irritation.

CAUTION: CAN CAUSE SKIN AND EYE IRRITATION WITH PROLONGED EXPOSURE. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID SWALLOWING. WASH WELL AFTER HANDLING.

PRIMARY ROUTES OF EXPOSURE ARE ADSORPTION AND INGESTION.

EYES: Irritation and some reddening of the eyes. SKIN: May cause dryness and / or tissue reddening. INGESTION: May cause gastro-intestinal upset.

4. FIRST AID MEASURES: EYES: Flush with cool running water for 15 minutes. SKIN: Wash with water for 15 minutes. INGESTION: Give large glasses of water or milk. Do not induce vomiting.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

5. FIRE FIGHTING MEASURES: Water based product which will not burn. Non flammable.

6. ACCIDENTAL RELEASE MEASURES: Avoid getting material on GLASS. If this occurs, wash immediately to remove all traces of the product. Accidental spillage. Wash thoroughly with water.

7. HANDLING AND STORAGE: Product is normally shipped in 25 litre and 210 litre plastic drums. Product may be stored in aluminium, steel, concrete, or plastic containers. Store in cool areas with original caps in place to prevent evaporation.

8. EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY PROTECTION: Use NIOSH approved respirator with alkaline vapour cartridges only if adequate ventilation is not available. PROTECTIVE GLOVES: Rubber or Plastic. EYE PROTECTION: Splash goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES: BOILING POINT: 212 DEG F (100 DEG C) □ PH 10.5 - 11 □ APPEARANCE -- Clear Fluid
WATER SOLUBILITY 100% COLOUR -- None WT % SOLIDS 24 SPECIFIC GRAVITY -- 1.21 VISCOSITY -- Low

10. STABILITY AND REACTIVITY: Normally stable at temperatures above 5 degrees C. Product may cause a gelling effect to materials that contain acids or ammonia. Upon drying the crystals formed from this solution become sharp and abrasive. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION: Product is an alkaline solution, with no known chronic effects. Acute Oral Toxicity LD50 (rat) 2 000 – 3 000 mg/kg.

12. ECOLOGICAL INFORMATION: Prevent large spills from entering natural waters. 48 hour LC 50 for Fathead minnow is 11.1 mgms /L

13. DISPOSAL CONSIDERATIONS: Reuse spilled material if possible, otherwise check with local landfill requirements. Product is not regarded a hazardous material.

14. TRANSPORTATION INFORMATION: The product is not regulated as a hazardous material by the U.S. Department of Transportation.

15. REGULATORY INFORMATION: Exposure limits for Sodium Silicate Solutions have not been established by OSHA or ACGIH. Not listed on the TSCA Inventory nor, as a Carcinogen on the ASHA, IARC, or NTP lists.

16. OTHER INFORMATION: Keep out of reach of children. Product may be poured into sewers of food preparation facilities for purposes of drain unclogging.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

619 Work description: Remove asbestos roof sheets form roof

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the departmetn of labour at all times.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Area does not include roof sheet profile

Remove asbestos big six roof sheets in terms of the attached Government gazzete and asbestos regulations from the Department of labour.

Item include the spray of the top and bottom of the sheets before removing the roof sheets, Item also include spraying the overlap sections with TSW after the sheets had been removed before packing the sheets in container for disposal. All work to be done in accordance with the attached TSW specification.

All necessary scaffolding and use of ladders to remove sheets is included in the item and scaffolding and ladders will be erect, used and dismantle in accordance with the approved fall arrest and safety plan.

Before the removing of the asbestos sheets the contractor shall have the container of the registered asbestos removal company on site.

The following procedures shall be followed to prevent the release of asbestos dust into the enviroment.

- 1: Have container to pack the roof sheets in on site.
- 2: Have safety talk with staff about dangers of asbestos
- 3: Set up 10.0m wide excludion zone around building.
- 4: Issue all staf with all necessary PPE clothing and equipment.
- 5: Set up ladders and scaffolding as necessary and inspect by compitend persone before it is used by staff.
- 6: Spray both sides of sheets with TSW or simmilar aproved product.
- 7: Remove sheets in control manner with care and with out cutting or breaking sheets.
- 8: lay on ground and spray section that was cover by ovelap of sheets with TSW or simmilar aproved product.
- 9: Pack sheets in to container to be sent to aproved disposal site.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

620 Work description: Dispose of asbestos sheet and waste.

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

Pack all asbestos sheets in container as it is removed from roof, container shall be kept lock to prevent the removing of the sheets by un-authorized persons. Seal container and send to approved asbestos waste site in terms of the Environmental management Act. (Act No. 107 of 1998) and the Environmental Conservation Act (Act No 73. Of 1989) All work to be done in accordance with the attached specification and attached asbestos regulation.

Item include all cost to pack, load, transport, off load and the dumping cost.

Handling Of Asbestos Containing Material

The handling and removal of asbestos-containing materials and articles, such as asbestos cement sheets, present particular health problems as they often involve dismantling or breaking large quantities of friable materials. Such work, if any, shall be performed in accordance with the provisions of the OHS Act Asbestos Regulations, 2002 (in particular, but not limited to, Section 13 and 15) and any other international, national and local legislation, regulations as deemed applicable.

The Principal Contractor shall ensure that workers are thoroughly instructed about the precautions that need to be taken to protect health, ensure continued compliance with the OHS Act, take steps to eliminate or minimize the risks and provide adequate and correct PPE equipment.

The Principal Contractor shall ensure that asbestos cement sheets are kept intact as far as is practicable. Whole asbestos sheets shall be Sprayed with TSW prior removal and transportation. All small fragments/asbestos chips shall be wetted prior to collection, be placed into heavy duty bags and be sealed and labelled as asbestos waste.

If the roof is fitted with gutters all run off water shall be passed through a fine sieve at each down pipe outlet. The filtered run off water may be channelled into the drainage system. The residue collected in the sieves shall be placed whilst still moist into heavy duty bags (at least 150 micron (1,5mm)) thickness and be sealed and labelled as asbestos waste.

All asbestos Waste (in sheet form, chips or residue) shall be disposed of at a licensed disposal and the Principal Contractor shall obtain the necessary asbestos waste permit to dispose of such waste. The Contractor shall be required to contact hand over to Transnet freight rail project manager the original certificate for the total quantity of asbestos received by the registered dumping site, before any payment on the contract will be approved.

635 Work description: Paint expose roof timber purlin.

Item include cleaning by washing off all dirt. Remove all loose, chalky, flaking, peeling paint from wood, sand and wipe off sanding dust with damp cloth and leave to dry before applying paint.

636 Work description: Paint expose roof timber sprockets.

Item include cleaning by washing off all dirt. Remove all loose, chalky, flaking, peeling paint from wood, sand and wipe off sanding dust with damp cloth and leave to dry before applying paint.

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

- 641 Work description: Under eaves paint ceiling boards
Work description: Paint ceiling complete 2 coat Paintwork to ceilings Include the cover strips, cornices and shall include the preparation of surfaces, including washing, filling, stopping, sanding, dusting and priming of nail heads or screws with universal undercoat. Apply two coats of acrylic PVA. All surfaces not being painted such as brickwork, sills, floors, joinery work and the like must be covered up and protected against spotting before any painting is commenced. No sweeping or dusting shall be done while painting is in progress or while paint is still wet.

FACIA/BARGE BOARDS

- 649 Work description: Fit / Replace barge board
Carefully loosen sheet iron capping where applicable or take down and remove galvanized capping where applicable. Take down barge boards and remove from site. Were necessary cut roof sheeting to be level with purline ends. The verges of roof to be finished with 225 x 10mm thick plain pressed fibre cement barge boards with bottom ends projecting 100mm beyond fascia board or in line with outer edge of gutter stop end, The edge of barge boards at bottom end shall be cut vertical level. The barge boards shall be securely fixed to projecting purlin ends with galvanized barge board brackets. Full length boards shall be used if necessary to joint in section of barge board the section shall not be shorter than 500mm.
- 651 Work description: Fit / Replace fascia board.
Provide 230 x 12mm nutec fibre cement fascia board. Fix nutec fascia boards to existing wood fascia boards using 2 no 8 * 38mm countersunk wood screws at 900mm intervals and 75mm from both sides of joints, one 30 mm from top edge and 30mm from bottom edge. Use right type of jointer at joints. The edge of fascia boards shall be cut vertically. Full length boards shall be used if necessary to joint in section of fascia board, these section shall not be shorter than 500mm. Facia boards shall be fit in horizontal straight line
- 653 Work description: Paint fascia board steel / Cement fibre two coats
STEEL FASCIA BOARDS: Clean from rust and dirt by scraping or by means of steel wire brush, sand completely and wipe off all sanding dust to obtain perfectly clean surface. Spot prime all exposed metal surface with an approved metal primer and apply two coats Plascon wall and all paint of Dulux wall guard paint
CEMENT FIBRE FASCIA BOARDS WITH PAINT IN GOOD CONDITION: Clean from all dust and dirt with approved detergent and rinse with clean water. Remove all defective paint, sand completely wipe off all sanding dust with a damp cloth, spot prime all nail and screw heads and apply two coats Plascon wall and all paint of Dulux wall guard paint or approved paint for cement fibre products.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

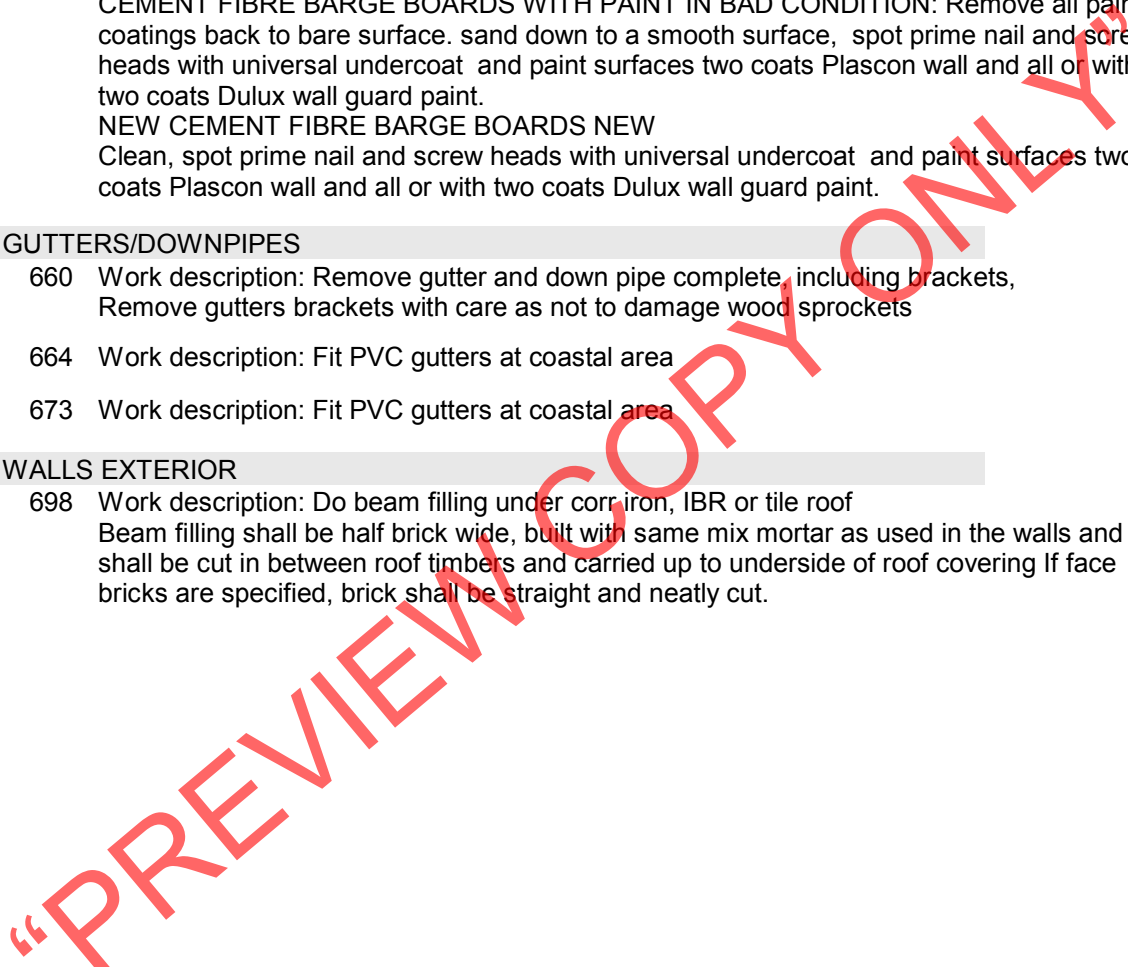
654 Work description: Paint Barge board steel / Cement fibre two coats
 STEEL FASCIA BOARDS: Clean from rust and dirt by scraping or by means of steel wire brush, sand completely and wipe off all sanding dust to obtain perfectly clean surface. Spot prime all exposed metal surface with an approved metal primer and apply two coats Plascon wall and all paint of Dulux wall guard paint
 CEMENT FIBRE BARGE BOARDS WITH PAINT IN GOOD CONDITION: Clean from all dust and dirt with approved detergent and rinse with clean water. Remove all defective paint, sand completely wipe off all sanding dust with a damp cloth, spot prime all nail and screw heads and apply two coats Plascon wall and all paint of Dulux wall guard paint or approved paint for cement fibre products.
 CEMENT FIBRE BARGE BOARDS WITH PAINT IN BAD CONDITION: Remove all paint coatings back to bare surface. sand down to a smooth surface, spot prime nail and screw heads with universal undercoat and paint surfaces two coats Plascon wall and all or with two coats Dulux wall guard paint.
 NEW CEMENT FIBRE BARGE BOARDS NEW
 Clean, spot prime nail and screw heads with universal undercoat and paint surfaces two coats Plascon wall and all or with two coats Dulux wall guard paint.

GUTTERS/DOWNSPIPES

660 Work description: Remove gutter and down pipe complete, including brackets, Remove gutters brackets with care as not to damage wood sprockets
 664 Work description: Fit PVC gutters at coastal area
 673 Work description: Fit PVC gutters at coastal area

WALLS EXTERIOR

698 Work description: Do beam filling under corr iron, IBR or tile roof
 Beam filling shall be half brick wide, built with same mix mortar as used in the walls and shall be cut in between roof timbers and carried up to underside of roof covering If face bricks are specified, brick shall be straight and neatly cut.



Respondent's signature: _____ Date: ____/____/____

ANNEXURE A

ASSET DESCRIPTION: Messroom

ASSET LOCATION: Marshalling Yard

CITY / TOWN: Paardeneiland

WORK DESCRIPTION: Replace asbestos roofsheets.

TENDER NO: BLE/51826

ASSET NO: 02BAD19C

ITEM NO. SPECIFICATIONS PER ITEM.

ROOF

- 581 Work description: Replace ridging partly corr iron / IBR
Carefully unscrew roofing screws. Provide new ridging and fixed with screws.

- 590 Work description: fit new Sisalation aluminum foil roof insulation material
Supply and place in position across purlins and overlap to prevent any leakages

“PREVIEW COPY ONLY”

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

592 Work description: Fit new 0.80mm thick roof sheeting to steel structure
Supply and fit IBR profile sheets 0.8mm thick. The roof sheeting shall be laid in long lengths, narrow flutes outermost, with single flute side laps. The sheeting shall be laid with side-laps on the leeward side of the prevailing wind direction. An approved side-lap sealant shall be incorporated on roofing with a pitch of less than 15 degrees. All fixing holes shall be drilled and not punched. Roof sheets shall be fixed by means of No.14 Top speed Hex Head screws 65mm LG for steel purlin. Side-lap stitching shall be effected at no more than 600mm centres with 25mm LG Top speed Hex Head screws. Sheets shall be secured to purlin for 0.8mm thick sheets, a broad guideline for Purlin Spacing is not more than 2.30m centre for single span and not more than 2.65m for double span, cantilever not more than 0.60m but must meet manufacturer specification. Spacing are dependant on both downward loading and negative suction loading caused by wind a engineer must be consulted to calculate the load (kn/m²) for the particular thickness of sheets and purline spacing for the specific project.. Use 5.5mm x 82mm self drill posy screws with 26mm galvanized bonded rubber washer. Main fasteners shall be positioned in the crown of the second and fourth narrow flutes, i.e. two fasteners per sheet per purlin. Side laps shall be secured with fasteners spaced equally between purlin and at centres not exceeding 750mm. 15mm of the broad flute of all roof sheets shall be turned up through 45 deg. at the apex to form a dam and turned down through 10 deg. at the eaves to form a drip. Contractor to measure the required length before order the IBR roof sheets.

Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced.

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.

The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

615 Work description: Apply TSW to asbestos sheets

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

ALL WORK ON ASBESTOS ROOF TO BE DONE IN ACCORDANCE WITH ASBESTOS REGULATIONS.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

Once the roof has been washed, Apply TSW in concentrate form to asbestos sheets. This will ensure that all fibres have been bound and encapsulated. The process will seal the roof and prevent fungus from gaining a substantial foothold. TSW is a very good prep for paint and will educe the quantity required. Product can be applied via an airless spray gun or a low pressure backpack sprayer. Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

The roofing can now be left as is, or paint can be applied after 72 hours. HELPLINE 082 464 1074 Chris Davidson.

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT IDENTIFICATION: Product Identification - TSW. MSDS Preparation Date: 01/07/2009

2. COMPOSITION / INFORMATION ON INGREDIENTS: Sodium Silicate in aqueous solution with additives CAS # 1344-09-8

Dangerous components: None

3. HAZARD IDENTIFICATION: Emergency Overview - Contains alkaline materials which may cause skin and eye irritation.

CAUTION: CAN CAUSE SKIN AND EYE IRRITATION WITH PROLONGED EXPOSURE. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID SWALLOWING. WASH WELL AFTER HANDLING.

PRIMARY ROUTES OF EXPOSURE ARE ADSORPTION AND INGESTION.

EYES: Irritation and some reddening of the eyes. SKIN: May cause dryness and / or tissue reddening. INGESTION: May cause gastro-intestinal upset.

4. FIRST AID MEASURES: EYES: Flush with cool running water for 15 minutes. SKIN: Wash with water for 15 minutes. INGESTION: Give large glasses of water or milk. Do not induce vomiting.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

5. FIRE FIGHTING MEASURES: Water based product which will not burn. Non flammable.

6. ACCIDENTAL RELEASE MEASURES: Avoid getting material on GLASS. If this occurs, wash immediately to remove all traces of the product. Accidental spillage. Wash thoroughly with water.

7. HANDLING AND STORAGE: Product is normally shipped in 25 litre and 210 litre plastic drums. Product may be stored in aluminium, steel, concrete, or plastic containers. Store in cool areas with original caps in place to prevent evaporation.

8. EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY PROTECTION: Use NIOSH approved respirator with alkaline vapour cartridges only if adequate ventilation is not available. PROTECTIVE GLOVES: Rubber or Plastic. EYE PROTECTION: Splash goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES: BOILING POINT: 212 DEG F (100 DEG C) PH 10.5 - 11 APPEARANCE -- Clear Fluid WATER SOLUBILITY 100% COLOUR -- None WT % SOLIDS 24 SPECIFIC GRAVITY -- 1.21 VISCOSITY -- Low

10. STABILITY AND REACTIVITY: Normally stable at temperatures above 5 degrees C. Product may cause a gelling effect to materials that contain acids or ammonia. Upon drying the crystals formed from this solution become sharp and abrasive. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION: Product is an alkaline solution, with no known chronic effects. Acute Oral Toxicity LD50 (rat) 2 000 – 3 000 mg/kg.

12. ECOLOGICAL INFORMATION: Prevent large spills from entering natural waters. 48 hour LC 50 for Fathead minnow is 11.1 mgms /L

13. DISPOSAL CONSIDERATIONS: Reuse spilled material if possible, otherwise check with local landfill requirements. Product is not regarded a hazardous material.

14. TRANSPORTATION INFORMATION: The product is not regulated as a hazardous material by the U.S. Department of Transportation.

15. REGULATORY INFORMATION: Exposure limits for Sodium Silicate Solutions have not been established by OSHA or ACGIH. Not listed on the TSCA Inventory nor, as a Carcinogen on the ASHA, IARC, or NTP lists.

16. OTHER INFORMATION: Keep out of reach of children. Product may be poured into sewers of food preparation facilities for purposes of drain unclogging.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

619 Work description: Remove asbestos roof sheets form roof

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the departmetn of labour at all times.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Area does not include roof sheet profile

Remove asbestos big six roof sheets in terms of the attached Government gazzete and asbestos regulations from the Department of labour.

Item include the spray of the top and bottom of the sheets before removing the roof sheets, Item also include spraying the overlap sections with TSW after the sheets had been removed before packing the sheets in container for disposal. All work to be done in accordance with the attached TSW specification.

All necessary scaffolding and use of ladders to remove sheets is included in the item and scaffolding and ladders will be erect, used and dismantle in accordance with the approved fall arrest and safety plan.

Before the removing of the asbestos sheets the contractor shall have the container of the registered asbestos removal company on site.

The following procedures shall be followed to prevent the release of asbestos dust into the enviroment.

- 1: Have container to pack the roof sheets in on site.
- 2: Have safety talk with staff about dangers of asbestos
- 3: Set up 10.0m wide excludion zone around building.
- 4: Issue all staf with all necessary PPE clothing and equipment.
- 5: Set up ladders and scaffolding as necessary and inspect by compitend persone before it is used by staff.
- 6: Spray both sides of sheets with TSW or simmilar aproved product.
- 7: Remove sheets in control manner with care and with out cutting or breaking sheets.
- 8: lay on ground and spray section that was cover by ovelap of sheets with TSW or simmilar aproved product.
- 9: Pack sheets in to container to be sent to aproved disposal site.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

620 Work description: Dispose of asbestos sheet and waste.

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

Pack all asbestos sheets in container as it is removed from roof, container shall be kept lock to prevent the removing of the sheets by un-authorized persons. Seal container and send to approved asbestos waste site in terms of the Environmental management Act. (Act No. 107 of 1998) and the Environmental Conservation Act (Act No 73. Of 1989) All work to be done in accordance with the attached specification and attached asbestos regulation.

Item include all cost to pack, load, transport, off load and the dumping cost.

Handling Of Asbestos Containing Material

The handling and removal of asbestos-containing materials and articles, such as asbestos cement sheets, present particular health problems as they often involve dismantling or breaking large quantities of friable materials. Such work, if any, shall be performed in accordance with the provisions of the OHS Act Asbestos Regulations, 2002 (in particular, but not limited to, Section 13 and 15) and any other international, national and local legislation, regulations as deemed applicable.

The Principal Contractor shall ensure that workers are thoroughly instructed about the precautions that need to be taken to protect health, ensure continued compliance with the OHS Act, take steps to eliminate or minimize the risks and provide adequate and correct PPE equipment.

The Principal Contractor shall ensure that asbestos cement sheets are kept intact as far as is practicable. Whole asbestos sheets shall be Sprayed with TSW prior removal and transportation. All small fragments/asbestos chips shall be wetted prior to collection, be placed into heavy duty bags and be sealed and labelled as asbestos waste.

If the roof is fitted with gutters all run off water shall be passed through a fine sieve at each down pipe outlet. The filtered run off water may be channelled into the drainage system. The residue collected in the sieves shall be placed whilst still moist into heavy duty bags (at least 150 micron (1,5mm)) thickness and be sealed and labelled as asbestos waste.

All asbestos Waste (in sheet form, chips or residue) shall be disposed of at a licensed disposal and the Principal Contractor shall obtain the necessary asbestos waste permit to dispose of such waste. The Contractor shall be required to contact hand over to Transnet freight rail project manager the original certificate for the total quantity of asbestos received by the registered dumping site, before any payment on the contract will be approved.

635 Work description: Paint expose roof timber purlin.

Item include cleaning by washing off all dirt. Remove all loose, chalky, flaking, peeling paint from wood, sand and wipe off sanding dust with damp cloth and leave to dry before applying paint.

636 Work description: Paint expose roof timber sprockets and rafters.

Item include cleaning by washing off all dirt. Remove all loose, chalky, flaking, peeling paint from wood, sand and wipe off sanding dust with damp cloth and leave to dry before applying paint.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

FACIA/BARGE BOARDS

- 649 Work description: Fit / Replace barge board
Carefully loosen sheet iron capping where applicable or take down and remove galvanized capping where applicable. Take down barge boards and remove from site. Where necessary cut roof sheeting to be level with purline ends. The verges of roof to be finished with 225 x 10mm thick plain pressed fibre cement barge boards with bottom ends projecting 100mm beyond fascia board or in line with outer edge of gutter stop end, The edge of barge boards at bottom end shall be cut vertical level. The barge boards shall be securely fixed to projecting purlin ends with galvanized barge board brackets. Full length boards shall be used if necessary to joint in section of barge board the section shall not be shorter than 500mm.
- 651 Work description: Fit / Replace fascia board.
Provide 230 x 12mm nutec fibre cement fascia board. Fix nutec fascia boards to existing wood fascia boards using 2 no 8 * 38mm countersunk wood screws at 900mm intervals and 75mm from both sides of joints, one 30 mm from top edge and 30mm from bottom edge. Use right type of jointer at joints. The edge of fascia boards shall be cut vertically. Full length boards shall be used if necessary to joint in section of fascia board, these section shall not be shorter than 500mm. Fascia boards shall be fit in horizontal straight line
- 653 Work description: Paint fascia board steel / Cement fibre two coats
STEEL FASCIA BOARDS: Clean from rust and dirt by scraping or by means of steel wire brush, sand completely and wipe off all sanding dust to obtain perfectly clean surface. Spot prime all exposed metal surface with an approved metal primer and apply two coats Plascon wall and all paint of Dulux wall guard paint
CEMENT FIBRE FASCIA BOARDS WITH PAINT IN GOOD CONDITION: Clean from all dust and dirt with approved detergent and rinse with clean water. Remove all defective paint, sand completely wipe off all sanding dust with a damp cloth, spot prime all nail and screw heads and apply two coats Plascon wall and all paint of Dulux wall guard paint or approved paint for cement fibre products.
- 654 Work description: Paint Barge board steel / Cement fibre two coats
STEEL FASCIA BOARDS: Clean from rust and dirt by scraping or by means of steel wire brush, sand completely and wipe off all sanding dust to obtain perfectly clean surface. Spot prime all exposed metal surface with an approved metal primer and apply two coats Plascon wall and all paint of Dulux wall guard paint
CEMENT FIBRE BARGE BOARDS WITH PAINT IN GOOD CONDITION: Clean from all dust and dirt with approved detergent and rinse with clean water. Remove all defective paint, sand completely wipe off all sanding dust with a damp cloth, spot prime all nail and screw heads and apply two coats Plascon wall and all paint of Dulux wall guard paint or approved paint for cement fibre products.
CEMENT FIBRE BARGE BOARDS WITH PAINT IN BAD CONDITION: Remove all paint coatings back to bare surface. sand down to a smooth surface, spot prime nail and screw heads with universal undercoat and paint surfaces two coats Plascon wall and all or with two coats Dulux wall guard paint.
NEW CEMENT FIBRE BARGE BOARDS NEW
Clean, spot prime nail and screw heads with universal undercoat and paint surfaces two coats Plascon wall and all or with two coats Dulux wall guard paint.

GUTTERS/DOWNPIPES

- 660 Work description: Remove gutter and down pipe complete, including brackets,
Remove gutters brackets with care as not to damage wood sprockets

Respondent's signature: _____ Date: ____/____/____

TENDER NO: BLE/51826

ASSET NO: 02BAD19C

ITEM NO. SPECIFICATIONS PER ITEM.

664 Work description: Fit PVC gutters at coastal area

673 Work description: Fit PVC gutters as per manufacturers specifications

WALLS EXTERIOR

698 Work description: Do beam filling under corr iron, IBR or tile roof
Beam filling shall be half brick wide, built with same mix mortar as used in the walls and shall be cut in between roof timbers and carried up to underside of roof covering If face bricks are specified, brick shall be straight and neatly cut.

“PREVIEW COPY ONLY”

Respondent's signature: _____ Date: ____/____/____

ANNEXURE A

ASSET DESCRIPTION: Messroom

ASSET LOCATION: Marshalling yard

CITY / TOWN: Paardeneiland

WORK DESCRIPTION: Replace asbestos roof.

TENDER NO: BLE/51826

ASSET NO: 02BAD21C

ITEM NO. SPECIFICATIONS PER ITEM.

ROOF

- 581 Work description: Replace ridging IBR
Carefully unscrew roofing screws. Provide new ridging and fixed with screws.

- 590 Work description: fit new Sisalation aluminum foil roof insulation material
Supply and place in position across purlins and overlap to prevent any leakages

“PREVIEW COPY ONLY”

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

592 Work description: Fit new 0.80mm thick roof sheeting to steel structure
 Supply and fit IBR profile sheets 0.8mm thick. The roof sheeting shall be laid in long lengths, narrow flutes outermost, with single flute side laps. The sheeting shall be laid with side-laps on the leeward side of the prevailing wind direction. An approved side-lap sealant shall be incorporated on roofing with a pitch of less than 15 degrees. All fixing holes shall be drilled and not punched. Roof sheets shall be fixed by means of No.14 Top speed Hex Head screws 65mm LG for steel purlin. Side-lap stitching shall be effected at no more than 600mm centres with 25mm LG Top speed Hex Head screws. Sheets shall be secured to purlin for 0.8mm thick sheets, a broad guideline for Purlin Spacing is not more than 2.30m centre for single span and not more than 2.65m for double span, cantilever not more than 0.60m but must meet manufacturer specification. Spacing are dependant on both downward loading and negative suction loading caused by wind a engineer must be consulted to calculate the load (kn/m²) for the particular thickness of sheets and purline spacing for the specific project.. Use 5.5mm x 82mm self drill posy screws with 26mm galvanized bonded rubber washer. Main fasteners shall be positioned in the crown of the second and fourth narrow flutes, i.e. two fasteners per sheet per purlin. Side laps shall be secured with fasteners spaced equally between purlin and at centres not exceeding 750mm. 15mm of the broad flute of all roof sheets shall be turned up through 45 deg. at the apex to form a dam and turned down through 10 deg. at the eaves to form a drip. Contractor to measure the required length before order the IBR roof sheets.

Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced.

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.

The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

615 Work description: Apply TSW to asbestos sheets

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

ALL WORK ON ASBESTOS ROOF TO BE DONE IN ACCORDANCE WITH ASBESTOS REGULATIONS.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

Once the roof has been washed, Apply TSW in concentrate form to asbestos sheets. This will ensure that all fibres have been bound and encapsulated. The process will seal the roof and prevent fungus from gaining a substantial foothold. TSW is a very good prep for paint and will educe the quantity required. Product can be applied via an airless spray gun or a low pressure backpack sprayer. Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

The roofing can now be left as is, or paint can be applied after 72 hours. HELPLINE 082 464 1074 Chris Davidson.

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT IDENTIFICATION: Product Identification - TSW. MSDS Preparation Date: 01/07/2009

2. COMPOSITION / INFORMATION ON INGREDIENTS: Sodium Silicate in aqueous solution with additives CAS # 1344-09-8

Dangerous components: None

3. HAZARD IDENTIFICATION: Emergency Overview - Contains alkaline materials which may cause skin and eye irritation.

CAUTION: CAN CAUSE SKIN AND EYE IRRITATION WITH PROLONGED EXPOSURE. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID SWALLOWING. WASH WELL AFTER HANDLING.

PRIMARY ROUTES OF EXPOSURE ARE ADSORPTION AND INGESTION.

EYES: Irritation and some reddening of the eyes.

SKIN: May cause dryness and / or tissue reddening.

INGESTION: May cause gastro-intestinal upset.

4. FIRST AID MEASURES: EYES: Flush with cool running water for 15 minutes.

SKIN: Wash with water for 15 minutes. INGESTION: Give large glasses of water or milk. Do not induce vomiting.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

5. FIRE FIGHTING MEASURES: Water based product which will not burn. Non flammable.

6. ACCIDENTAL RELEASE MEASURES: Avoid getting material on GLASS. If this occurs, wash immediately to remove all traces of the product. Accidental spillage. Wash thoroughly with water.

7. HANDLING AND STORAGE: Product is normally shipped in 25 litre and 210 litre plastic drums. Product may be stored in aluminium, steel, concrete, or plastic containers. Store in cool areas with original caps in place to prevent evaporation.

8. EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY PROTECTION: Use NIOSH approved respirator with alkaline vapour cartridges only if adequate ventilation is not available. PROTECTIVE GLOVES: Rubber or Plastic. EYE PROTECTION: Splash goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES: BOILING POINT: 212 DEG F (100 DEG C) PH 10.5 - 11 APPEARANCE -- Clear Fluid WATER SOLUBILITY 100% COLOUR -- None WT % SOLIDS 24 SPECIFIC GRAVITY -- 1.21 VISCOSITY -- Low

10. STABILITY AND REACTIVITY: Normally stable at temperatures above 5 degrees C. Product may cause a gelling effect to materials that contain acids or ammonia. Upon drying the crystals formed from this solution become sharp and abrasive. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION: Product is an alkaline solution, with no known chronic effects. Acute Oral Toxicity LD50 (rat) 2 000 – 3 000 mg/kg.

12. ECOLOGICAL INFORMATION: Prevent large spills from entering natural waters. 48 hour LC 50 for Fathead minnow is 11.1 mgms /L

13. DISPOSAL CONSIDERATIONS: Reuse spilled material if possible, otherwise check with local landfill requirements. Product is not regarded a hazardous material.

14. TRANSPORTATION INFORMATION: The product is not regulated as a hazardous material by the U.S. Department of Transportation.

15. REGULATORY INFORMATION: Exposure limits for Sodium Silicate Solutions have not been established by OSHA or ACGIH. Not listed on the TSCA Inventory nor, as a Carcinogen on the ASHA, IARC, or NTP lists.

16. OTHER INFORMATION: Keep out of reach of children. Product may be poured into sewers of food preparation facilities for purposes of drain unclogging.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

619 Work description: Remove asbestos roof sheets form roof

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the departmetn of labour at all times.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Area does not include roof sheet profile

Remove asbestos big six roof sheets in terms of the attached Government gazzete and asbestos regulations from the Department of labour.

Item include the spray of the top and bottom of the sheets before removing the roof sheets, Item also include spraying the overlap sections with TSW after the sheets had been removed before packing the sheets in container for disposal. All work to be done in accordance with the attached TSW specification.

All necessary scaffolding and use of ladders to remove sheets is included in the item and scaffolding and ladders will be erect, used and dismantle in accordance with the approved fall arrest and safety plan.

Before the removing of the asbestos sheets the contractor shall have the container of the registered asbestos removal company on site.

The following procedures shall be followed to prevent the release of asbestos dust into the enviroment.

- 1: Have container to pack the roof sheets in on site.
- 2: Have safety talk with staff about dangers of asbestos
- 3: Set up 10.0m wide excludion zone around building.
- 4: Issue all staf with all necessary PPE clothing and equipment.
- 5: Set up ladders and scaffolding as necessary and inspect by compitend persone before it is used by staff.
- 6: Spray both sides of sheets with TSW or simmilar aproved product.
- 7: Remove sheets in control manner with care and with out cutting or breaking sheets.
- 8: lay on ground and spray section that was cover by ovelap of sheets with TSW or simmilar aproved product.
- 9: Pack sheets in to container to be sent to aproved disposal site.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

620 Work description: Dispose of asbestos sheet and waste.

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

Pack all asbestos sheets in container as it is removed from roof, container shall be kept lock to prevent the removing of the sheets by un-authorized persons. Seal container and send to approved asbestos waste site in terms of the Environmental management Act. (Act No. 107 of 1998) and the Environmental Conservation Act (Act No 73. Of 1989) All work to be done in accordance with the attached specification and attached asbestos regulation.

Item include all cost to pack, load, transport, off load and the dumping cost.

Handling Of Asbestos Containing Material

The handling and removal of asbestos-containing materials and articles, such as asbestos cement sheets, present particular health problems as they often involve dismantling or breaking large quantities of friable materials. Such work, if any, shall be performed in accordance with the provisions of the OHS Act Asbestos Regulations, 2002 (in particular, but not limited to, Section 13 and 15) and any other international, national and local legislation, regulations as deemed applicable.

The Principal Contractor shall ensure that workers are thoroughly instructed about the precautions that need to be taken to protect health, ensure continued compliance with the OHS Act, take steps to eliminate or minimize the risks and provide adequate and correct PPE equipment.

The Principal Contractor shall ensure that asbestos cement sheets are kept intact as far as is practicable. Whole asbestos sheets shall be Sprayed with TSW prior removal and transportation. All small fragments/asbestos chips shall be wetted prior to collection, be placed into heavy duty bags and be sealed and labelled as asbestos waste.

If the roof is fitted with gutters all run off water shall be passed through a fine sieve at each down pipe outlet. The filtered run off water may be channelled into the drainage system. The residue collected in the sieves shall be placed whilst still moist into heavy duty bags (at least 150 micron (1,5mm)) thickness and be sealed and labelled as asbestos waste.

All asbestos Waste (in sheet form, chips or residue) shall be disposed of at a licensed disposal and the Principal Contractor shall obtain the necessary asbestos waste permit to dispose of such waste. The Contractor shall be required to contact hand over to Transnet freight rail project manager the original certificate for the total quantity of asbestos received by the registered dumping site, before any payment on the contract will be approved.

635 Work description: Paint expose roof timber purlin.

Item include cleaning by washing off all dirt. Remove all loose, chalky, flaking, peeling paint from wood, sand and wipe off sanding dust with damp cloth and leave to dry before applying paint.

636 Work description: Paint expose roof timber sprockets.

Item include cleaning by washing off all dirt. Remove all loose, chalky, flaking, peeling paint from wood, sand and wipe off sanding dust with damp cloth and leave to dry before applying paint.

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

FACIA/BARGE BOARDS

- 649 Work description: Fit / Replace barge board
Carefully loosen sheet iron capping where applicable or take down and remove galvanized capping where applicable. Take down barge boards and remove from site. Where necessary cut roof sheeting to be level with purline ends. The verges of roof to be finished with 225 x 10mm thick plain pressed fibre cement barge boards with bottom ends projecting 100mm beyond fascia board or in line with outer edge of gutter stop end, The edge of barge boards at bottom end shall be cut vertical level. The barge boards shall be securely fixed to projecting purlin ends with galvanized barge board brackets. Full length boards shall be used if necessary to joint in section of barge board the section shall not be shorter than 500mm.
- 650 Work description: Replace fascia board partly
Neatly cut fascia as required, take down and remove from site. Provide and fix new fascia boards to match existing.
- 651 Work description: Fit / Replace fascia board.
Provide 230 x 12mm nutec fibre cement fascia board. Fix nutec fascia boards to existing wood fascia boards using 2 no 8 * 38mm countersunk wood screws at 900mm intervals and 75mm from both sides of joints, one 30 mm from top edge and 30mm from bottom edge. Use right type of jointer at joints. The edge of fascia boards shall be cut vertically. Full length boards shall be used if necessary to joint in section of fascia board, these section shall not be shorter than 500mm. Fascia boards shall be fit in horizontal straight line
- 653 Work description: Paint fascia board steel / Cement fibre two coats
STEEL FASCIA BOARDS: Clean from rust and dirt by scraping or by means of steel wire brush, sand completely and wipe off all sanding dust to obtain perfectly clean surface. Spot prime all exposed metal surface with an approved metal primer and apply two coats Plascon wall and all paint of Dulux wall guard paint
CEMENT FIBRE FASCIA BOARDS WITH PAINT IN GOOD CONDITION: Clean from all dust and dirt with approved detergent and rinse with clean water. Remove all defective paint, sand completely wipe off all sanding dust with a damp cloth, spot prime all nail and screw heads and apply two coats Plascon wall and all paint of Dulux wall guard paint or approved paint for cement fibre products.
- 654 Work description: Paint Barge board steel / Cement fibre two coats
STEEL FASCIA BOARDS: Clean from rust and dirt by scraping or by means of steel wire brush, sand completely and wipe off all sanding dust to obtain perfectly clean surface. Spot prime all exposed metal surface with an approved metal primer and apply two coats Plascon wall and all paint of Dulux wall guard paint
CEMENT FIBRE BARGE BOARDS WITH PAINT IN GOOD CONDITION: Clean from all dust and dirt with approved detergent and rinse with clean water. Remove all defective paint, sand completely wipe off all sanding dust with a damp cloth, spot prime all nail and screw heads and apply two coats Plascon wall and all paint of Dulux wall guard paint or approved paint for cement fibre products.
CEMENT FIBRE BARGE BOARDS WITH PAINT IN BAD CONDITION: Remove all paint coatings back to bare surface. sand down to a smooth surface, spot prime nail and screw heads with universal undercoat and paint surfaces two coats Plascon wall and all or with two coats Dulux wall guard paint.
NEW CEMENT FIBRE BARGE BOARDS NEW
Clean, spot prime nail and screw heads with universal undercoat and paint surfaces two coats Plascon wall and all or with two coats Dulux wall guard paint.

GUTTERS/DOWNSPIPES

Respondent's signature: _____ Date: ____/____/____

TENDER NO: BLE/51826

ASSET NO: 02BAD21C

ITEM NO. SPECIFICATIONS PER ITEM.

- 660 Work description: Remove gutter and down pipe complete, including brackets, Remove gutters brackets with care as not to damage wood sprockets
- 664 Work description: Fit PVC gutters at coastal area
- 673 Work description: Fit PVC gutters at coastal area

WALLS EXTERIOR

- 698 Work description: Do beam filling under corr iron, IBR or tile roof
Beam filling shall be half brick wide, built with same mix mortar as used in the walls and shall be cut in between roof timbers and carried up to underside of roof covering If face bricks are specified, brick shall be straight and neatly cut.

“PREVIEW COPY ONLY”

Respondent's signature: _____ Date: ____/____/____

ANNEXURE A

ASSET DESCRIPTION: Messroom

ASSET LOCATION: Marshalling yard

CITY / TOWN: Paardeneiland

WORK DESCRIPTION: Replace asbestos roof.

TENDER NO: BLE/51826

ASSET NO: 02BAD21C

ITEM NO. SPECIFICATIONS PER ITEM.

ROOF

- 581 Work description: Replace ridging IBR
Carefully unscrew roofing screws. Provide new ridging and fixed with screws.
- 590 Work description: fit new Sisalation aluminum foil roof insulation material
Supply and place in position across purlins and overlap to prevent any leakages

“PREVIEW COPY ONLY”

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

592 Work description: Fit new 0.80mm thick roof sheeting to steel structure
Supply and fit IBR profile sheets 0.8mm thick. The roof sheeting shall be laid in long lengths, narrow flutes outermost, with single flute side laps. The sheeting shall be laid with side-laps on the leeward side of the prevailing wind direction. An approved side-lap sealant shall be incorporated on roofing with a pitch of less than 15 degrees. All fixing holes shall be drilled and not punched. Roof sheets shall be fixed by means of No.14 Top speed Hex Head screws 65mm LG for steel purlin. Side-lap stitching shall be effected at no more than 600mm centres with 25mm LG Top speed Hex Head screws. Sheets shall be secured to purlin for 0.8mm thick sheets, a broad guideline for Purlin Spacing is not more than 2.30m centre for single span and not more than 2.65m for double span, cantilever not more than 0.60m but must meet manufacturer specification. Spacing are dependant on both downward loading and negative suction loading caused by wind a engineer must be consulted to calculate the load (kn/m²) for the particular thickness of sheets and purline spacing for the specific project.. Use 5.5mm x 82mm self drill posy screws with 26mm galvanized bonded rubber washer. Main fasteners shall be positioned in the crown of the second and fourth narrow flutes, i.e. two fasteners per sheet per purlin. Side laps shall be secured with fasteners spaced equally between purlin and at centres not exceeding 750mm. 15mm of the broad flute of all roof sheets shall be turned up through 45 deg. at the apex to form a dam and turned down through 10 deg. at the eaves to form a drip. Contractor to measure the required length before order the IBR roof sheets.

Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced.

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.

The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

615 Work description: Apply TSW to asbestos sheets

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

ALL WORK ON ASBESTOS ROOF TO BE DONE IN ACCORDANCE WITH ASBESTOS REGULATIONS.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

Once the roof has been washed, Apply TSW in concentrate form to asbestos sheets. This will ensure that all fibres have been bound and encapsulated. The process will seal the roof and prevent fungus from gaining a substantial foothold. TSW is a very good prep for paint and will educe the quantity required. Product can be applied via an airless spray gun or a low pressure backpack sprayer. Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

The roofing can now be left as is, or paint can be applied after 72 hours. HELPLINE 082 464 1074 Chris Davidson.

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT IDENTIFICATION: Product Identification - TSW. MSDS Preparation Date: 01/07/2009

2. COMPOSITION / INFORMATION ON INGREDIENTS: Sodium Silicate in aqueous solution with additives CAS # 1344-09-8

Dangerous components: None

3. HAZARD IDENTIFICATION: Emergency Overview - Contains alkaline materials which may cause skin and eye irritation.

CAUTION: CAN CAUSE SKIN AND EYE IRRITATION WITH PROLONGED EXPOSURE. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID SWALLOWING. WASH WELL AFTER HANDLING.

PRIMARY ROUTES OF EXPOSURE ARE ADSORPTION AND INGESTION.

EYES: Irritation and some reddening of the eyes.

SKIN: May cause dryness and / or tissue reddening.

INGESTION: May cause gastro-intestinal upset.

4. FIRST AID MEASURES: EYES: Flush with cool running water for 15 minutes.

SKIN: Wash with water for 15 minutes. INGESTION: Give large glasses of water or milk. Do not induce vomiting.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

5. FIRE FIGHTING MEASURES: Water based product which will not burn. Non flammable.

6. ACCIDENTAL RELEASE MEASURES: Avoid getting material on GLASS. If this occurs, wash immediately to remove all traces of the product. Accidental spillage. Wash thoroughly with water.

7. HANDLING AND STORAGE: Product is normally shipped in 25 litre and 210 litre plastic drums. Product may be stored in aluminium, steel, concrete, or plastic containers. Store in cool areas with original caps in place to prevent evaporation.

8. EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY PROTECTION: Use NIOSH approved respirator with alkaline vapour cartridges only if adequate ventilation is not available. PROTECTIVE GLOVES: Rubber or Plastic. EYE PROTECTION: Splash goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES: BOILING POINT: 212 DEG F (100 DEG C) PH 10.5 - 11 APPEARANCE -- Clear Fluid WATER SOLUBILITY 100% COLOUR -- None WT % SOLIDS 24 SPECIFIC GRAVITY -- 1.21 VISCOSITY -- Low

10. STABILITY AND REACTIVITY: Normally stable at temperatures above 5 degrees C. Product may cause a gelling effect to materials that contain acids or ammonia. Upon drying the crystals formed from this solution become sharp and abrasive. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION: Product is an alkaline solution, with no known chronic effects. Acute Oral Toxicity LD50 (rat) 2 000 – 3 000 mg/kg.

12. ECOLOGICAL INFORMATION: Prevent large spills from entering natural waters. 48 hour LC 50 for Fathead minnow is 11.1 mgms /L

13. DISPOSAL CONSIDERATIONS: Reuse spilled material if possible, otherwise check with local landfill requirements. Product is not regarded a hazardous material.

14. TRANSPORTATION INFORMATION: The product is not regulated as a hazardous material by the U.S. Department of Transportation.

15. REGULATORY INFORMATION: Exposure limits for Sodium Silicate Solutions have not been established by OSHA or ACGIH. Not listed on the TSCA Inventory nor, as a Carcinogen on the ASHA, IARC, or NTP lists.

16. OTHER INFORMATION: Keep out of reach of children. Product may be poured into sewers of food preparation facilities for purposes of drain unclogging.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

619 Work description: Remove asbestos roof sheets form roof

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the departmetn of labour at all times.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Area does not include roof sheet profile

Remove asbestos big six roof sheets in terms of the attached Government gazzete and asbestos regulations from the Department of labour.

Item include the spray of the top and bottom of the sheets before removing the roof sheets, Item also include spraying the overlap sections with TSW after the sheets had been removed before packing the sheets in container for disposal. All work to be done in accordance with the attached TSW specification.

All necessary scaffolding and use of ladders to remove sheets is included in the item and scaffolding and ladders will be erect, used and dismantle in accordance with the approved fall arrest and safety plan.

Before the removing of the asbestos sheets the contractor shall have the container of the registered asbestos removal company on site.

The following procedures shall be followed to prevent the release of asbestos dust into the enviroment.

- 1: Have container to pack the roof sheets in on site.
- 2: Have safety talk with staff about dangers of asbestos
- 3: Set up 10.0m wide excludion zone around building.
- 4: Issue all staf with all necessary PPE clothing and equipment.
- 5: Set up ladders and scaffolding as necessary and inspect by compitend persone before it is used by staff.
- 6: Spray both sides of sheets with TSW or simmilar aproved product.
- 7: Remove sheets in control manner with care and with out cutting or breaking sheets.
- 8: lay on ground and spray section that was cover by ovelap of sheets with TSW or simmilar aproved product.
- 9: Pack sheets in to container to be sent to aproved disposal site.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

620 Work description: Dispose of asbestos sheet and waste.

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

Pack all asbestos sheets in container as it is removed from roof, container shall be kept lock to prevent the removing of the sheets by un-authorized persons. Seal container and send to approved asbestos waste site in terms of the Environmental management Act. (Act No. 107 of 1998) and the Environmental Conservation Act (Act No 73. Of 1989) All work to be done in accordance with the attached specification and attached asbestos regulation.

Item include all cost to pack, load, transport, off load and the dumping cost.

Handling Of Asbestos Containing Material

The handling and removal of asbestos-containing materials and articles, such as asbestos cement sheets, present particular health problems as they often involve dismantling or breaking large quantities of friable materials. Such work, if any, shall be performed in accordance with the provisions of the OHS Act Asbestos Regulations, 2002 (in particular, but not limited to, Section 13 and 15) and any other international, national and local legislation, regulations as deemed applicable.

The Principal Contractor shall ensure that workers are thoroughly instructed about the precautions that need to be taken to protect health, ensure continued compliance with the OHS Act, take steps to eliminate or minimize the risks and provide adequate and correct PPE equipment.

The Principal Contractor shall ensure that asbestos cement sheets are kept intact as far as is practicable. Whole asbestos sheets shall be Sprayed with TSW prior removal and transportation. All small fragments/asbestos chips shall be wetted prior to collection, be placed into heavy duty bags and be sealed and labelled as asbestos waste.

If the roof is fitted with gutters all run off water shall be passed through a fine sieve at each down pipe outlet. The filtered run off water may be channelled into the drainage system. The residue collected in the sieves shall be placed whilst still moist into heavy duty bags (at least 150 micron (1,5mm)) thickness and be sealed and labelled as asbestos waste.

All asbestos Waste (in sheet form, chips or residue) shall be disposed of at a licensed disposal and the Principal Contractor shall obtain the necessary asbestos waste permit to dispose of such waste. The Contractor shall be required to contact hand over to Transnet freight rail project manager the original certificate for the total quantity of asbestos received by the registered dumping site, before any payment on the contract will be approved.

635 Work description: Paint expose roof timber purlin.

Item include cleaning by washing off all dirt. Remove all loose, chalky, flaking, peeling paint from wood, sand and wipe off sanding dust with damp cloth and leave to dry before applying paint.

636 Work description: Paint expose roof timber sprockets.

Item include cleaning by washing off all dirt. Remove all loose, chalky, flaking, peeling paint from wood, sand and wipe off sanding dust with damp cloth and leave to dry before applying paint.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

FACIA/BARGE BOARDS

- 649 Work description: Fit / Replace barge board
Carefully loosen sheet iron capping where applicable or take down and remove galvanized capping where applicable. Take down barge boards and remove from site. Where necessary cut roof sheeting to be level with purline ends. The verges of roof to be finished with 225 x 10mm thick plain pressed fibre cement barge boards with bottom ends projecting 100mm beyond fascia board or in line with outer edge of gutter stop end, The edge of barge boards at bottom end shall be cut vertical level. The barge boards shall be securely fixed to projecting purlin ends with galvanized barge board brackets. Full length boards shall be used if necessary to joint in section of barge board the section shall not be shorter than 500mm.
- 650 Work description: Replace fascia board partly
Neatly cut fascia as required, take down and remove from site. Provide and fix new fascia boards to match existing.
- 651 Work description: Fit / Replace fascia board.
Provide 230 x 12mm nutec fibre cement fascia board. Fix nutec fascia boards to existing wood fascia boards using 2 no 8 * 38mm countersunk wood screws at 900mm intervals and 75mm from both sides of joints, one 30 mm from top edge and 30mm from bottom edge. Use right type of jointer at joints. The edge of fascia boards shall be cut vertically. Full length boards shall be used if necessary to joint in section of fascia board, these section shall not be shorter than 500mm. Fascia boards shall be fit in horizontal straight line
- 653 Work description: Paint fascia board steel / Cement fibre two coats
STEEL FASCIA BOARDS: Clean from rust and dirt by scraping or by means of steel wire brush, sand completely and wipe off all sanding dust to obtain perfectly clean surface. Spot prime all exposed metal surface with an approved metal primer and apply two coats Plascon wall and all paint of Dulux wall guard paint
CEMENT FIBRE FASCIA BOARDS WITH PAINT IN GOOD CONDITION: Clean from all dust and dirt with approved detergent and rinse with clean water. Remove all defective paint, sand completely wipe off all sanding dust with a damp cloth, spot prime all nail and screw heads and apply two coats Plascon wall and all paint of Dulux wall guard paint or approved paint for cement fibre products.
- 654 Work description: Paint Barge board steel / Cement fibre two coats
STEEL FASCIA BOARDS: Clean from rust and dirt by scraping or by means of steel wire brush, sand completely and wipe off all sanding dust to obtain perfectly clean surface. Spot prime all exposed metal surface with an approved metal primer and apply two coats Plascon wall and all paint of Dulux wall guard paint
CEMENT FIBRE BARGE BOARDS WITH PAINT IN GOOD CONDITION: Clean from all dust and dirt with approved detergent and rinse with clean water. Remove all defective paint, sand completely wipe off all sanding dust with a damp cloth, spot prime all nail and screw heads and apply two coats Plascon wall and all paint of Dulux wall guard paint or approved paint for cement fibre products.
CEMENT FIBRE BARGE BOARDS WITH PAINT IN BAD CONDITION: Remove all paint coatings back to bare surface. sand down to a smooth surface, spot prime nail and screw heads with universal undercoat and paint surfaces two coats Plascon wall and all or with two coats Dulux wall guard paint.
NEW CEMENT FIBRE BARGE BOARDS NEW
Clean, spot prime nail and screw heads with universal undercoat and paint surfaces two coats Plascon wall and all or with two coats Dulux wall guard paint.

GUTTERS/DOWNSPIPES

Respondent's signature: _____ Date: ____/____/____

TENDER NO: BLE/51826

ASSET NO: 02BAD21C

ITEM NO. SPECIFICATIONS PER ITEM.

660 Work description: Remove gutter and down pipe complete, including brackets,
Remove gutters brackets with care as not to damage wood sprockets

664 Work description: Fit PVC gutters at coastal area

673 Work description: Fit PVC gutters at coastal area

WALLS EXTERIOR

698 Work description: Do beam filling under corr iron, IBR or tile roof
Beam filling shall be half brick wide, built with same mix mortar as used in the walls and shall be cut in between roof timbers and carried up to underside of roof covering If face bricks are specified, brick shall be straight and neatly cut.

“PREVIEW COPY ONLY”

Respondent's signature: _____ Date: ____/____/____

ANNEXURE A

ASSET DESCRIPTION: Messroom

ASSET LOCATION: Marshalling yard

CITY / TOWN: Paardeneiland.

WORK DESCRIPTION: Replace Asbestos roofsheets.

TENDER NO: BLE/51826

ASSET NO: 02BAD20C

ITEM NO. SPECIFICATIONS PER ITEM.

ROOF

- 580 Work description: Remove and replace roof covering to replace decay purline
- 581 Work description: Replace ridging partly corr iron / IBR
Carefully unscrew roofing screws. Provide new ridging and fixed with screws.
- 590 Work description: fit new Sisalation aluminum foil roof insulation material
Supply and place in position across purlins and overlap to prevent any leakages

“PREVIEW COPY ONLY”

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

592 Work description: Fit new 0.80mm thick roof sheeting to steel structure
 Supply and fit IBR profile sheets 0.8mm thick. The roof sheeting shall be laid in long lengths, narrow flutes outermost, with single flute side laps. The sheeting shall be laid with side-laps on the leeward side of the prevailing wind direction. An approved side-lap sealant shall be incorporated on roofing with a pitch of less than 15 degrees. All fixing holes shall be drilled and not punched. Roof sheets shall be fixed by means of No.14 Top speed Hex Head screws 65mm LG for steel purlin. Side-lap stitching shall be effected at no more than 600mm centres with 25mm LG Top speed Hex Head screws. Sheets shall be secured to purlin for 0.8mm thick sheets, a broad guideline for Purlin Spacing is not more than 2.30m centre for single span and not more than 2.65m for double span, cantilever not more than 0.60m but must meet manufacturer specification. Spacing are dependant on both downward loading and negative suction loading caused by wind a engineer must be consulted to calculate the load (kn/m²) for the particular thickness of sheets and purline spacing for the specific project.. Use 5.5mm x 82mm self drill posy screws with 26mm galvanized bonded rubber washer. Main fasteners shall be positioned in the crown of the second and fourth narrow flutes, i.e. two fasteners per sheet per purlin. Side laps shall be secured with fasteners spaced equally between purlin and at centres not exceeding 750mm. 15mm of the broad flute of all roof sheets shall be turned up through 45 deg. at the apex to form a dam and turned down through 10 deg. at the eaves to form a drip. Contractor to measure the required length before order the IBR roof sheets.

Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced.

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.

The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

615 Work description: Apply TSW to asbestos sheets

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

ALL WORK ON ASBESTOS ROOF TO BE DONE IN ACCORDANCE WITH ASBESTOS REGULATIONS.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

Once the roof has been washed, Apply TSW in concentrate form to asbestos sheets. This will ensure that all fibres have been bound and encapsulated. The process will seal the roof and prevent fungus from gaining a substantial foothold. TSW is a very good prep for paint and will educe the quantity required. Product can be applied via an airless spray gun or a low pressure backpack sprayer. Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

The roofing can now be left as is, or paint can be applied after 72 hours. HELPLINE 082 464 1074 Chris Davidson.

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT IDENTIFICATION: Product Identification - TSW. MSDS Preparation Date: 01/07/2009

2. COMPOSITION / INFORMATION ON INGREDIENTS: Sodium Silicate in aqueous solution with additives CAS # 1344-09-8

Dangerous components: None

3. HAZARD IDENTIFICATION: Emergency Overview - Contains alkaline materials which may cause skin and eye irritation.

CAUTION: CAN CAUSE SKIN AND EYE IRRITATION WITH PROLONGED EXPOSURE. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID SWALLOWING. WASH WELL AFTER HANDLING.

PRIMARY ROUTES OF EXPOSURE ARE ADSORPTION AND INGESTION.

EYES: Irritation and some reddening of the eyes. SKIN: May cause dryness and / or tissue reddening. INGESTION: May cause gastro-intestinal upset.

4. FIRST AID MEASURES: EYES: Flush with cool running water for 15 minutes. SKIN: Wash with water for 15 minutes. INGESTION: Give large glasses of water or milk. Do not induce vomiting.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

5. FIRE FIGHTING MEASURES: Water based product which will not burn. Non flammable.

6. ACCIDENTAL RELEASE MEASURES: Avoid getting material on GLASS. If this occurs, wash immediately to remove all traces of the product. Accidental spillage. Wash thoroughly with water.

7. HANDLING AND STORAGE: Product is normally shipped in 25 litre and 210 litre plastic drums. Product may be stored in aluminium, steel, concrete, or plastic containers. Store in cool areas with original caps in place to prevent evaporation.

8. EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY PROTECTION: Use NIOSH approved respirator with alkaline vapour cartridges only if adequate ventilation is not available. PROTECTIVE GLOVES: Rubber or Plastic. EYE PROTECTION: Splash goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES: BOILING POINT: 212 DEG F (100 DEG C) □ PH 10.5 - 11 □ APPEARANCE -- Clear Fluid
WATER SOLUBILITY 100% COLOUR -- None WT % SOLIDS 24 SPECIFIC GRAVITY -- 1.21 VISCOSITY -- Low

10. STABILITY AND REACTIVITY: Normally stable at temperatures above 5 degrees C. Product may cause a gelling effect to materials that contain acids or ammonia. Upon drying the crystals formed from this solution become sharp and abrasive. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION: Product is an alkaline solution, with no known chronic effects. Acute Oral Toxicity LD50 (rat) 2 000 – 3 000 mg/kg.

12. ECOLOGICAL INFORMATION: Prevent large spills from entering natural waters. 48 hour LC 50 for Fathead minnow is 11.1 mgms /L

13. DISPOSAL CONSIDERATIONS: Reuse spilled material if possible, otherwise check with local landfill requirements. Product is not regarded a hazardous material.

14. TRANSPORTATION INFORMATION: The product is not regulated as a hazardous material by the U.S. Department of Transportation.

15. REGULATORY INFORMATION: Exposure limits for Sodium Silicate Solutions have not been established by OSHA or ACGIH. Not listed on the TSCA Inventory nor, as a Carcinogen on the ASHA, IARC, or NTP lists.

16. OTHER INFORMATION: Keep out of reach of children. Product may be poured into sewers of food preparation facilities for purposes of drain unclogging.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

619 Work description: Remove asbestos roof sheets form roof

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the departmetn of labour at all times.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Area does not include roof sheet profile

Remove asbestos big six roof sheets in terms of the attached Government gazzete and asbestos regulations from the Department of labour.

Item include the spray of the top and bottom of the sheets before removing the roof sheets, Item also include spraying the overlap sections with TSW after the sheets had been removed before packing the sheets in container for disposal. All work to be done in accordance with the attached TSW specification.

All necessary scaffolding and use of ladders to remove sheets is included in the item and scaffolding and ladders will be erect, used and dismantle in accordance with the approved fall arrest and safety plan.

Before the removing of the asbestos sheets the contractor shall have the container of the registered asbestos removal company on site.

The following procedures shall be followed to prevent the release of asbestos dust into the enviroment.

- 1: Have container to pack the roof sheets in on site.
- 2: Have safety talk with staff about dangers of asbestos
- 3: Set up 10.0m wide exclution zone around building.
- 4: Issue all staf with all necessary PPE clothing and equipment.
- 5: Set up ladders and scaffolding as necessary and inspect by compitend persone before it is used by staff.
- 6: Spray both sides of sheets with TSW or simmilar aproved product.
- 7: Remove sheets in control manner with care and with out cutting or breaking sheets.
- 8: lay on ground and spray section that was cover by ovelap of sheets with TSW or simmilar aproved product.
- 9: Pack sheets in to container to be sent to aproved disposal site.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

620 Work description: Dispose of asbestos sheet and waste.

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

Pack all asbestos sheets in container as it is removed from roof, container shall be kept lock to prevent the removing of the sheets by un-authorized persons. Seal container and send to approved asbestos waste site in terms of the Environmental management Act. (Act No. 107 of 1998) and the Environmental Conservation Act (Act No 73. Of 1989) All work to be done in accordance with the attached specification and attached asbestos regulation.

Item include all cost to pack, load, transport, off load and the dumping cost.

Handling Of Asbestos Containing Material

The handling and removal of asbestos-containing materials and articles, such as asbestos cement sheets, present particular health problems as they often involve dismantling or breaking large quantities of friable materials. Such work, if any, shall be performed in accordance with the provisions of the OHS Act Asbestos Regulations, 2002 (in particular, but not limited to, Section 13 and 15) and any other international, national and local legislation, regulations as deemed applicable.

The Principal Contractor shall ensure that workers are thoroughly instructed about the precautions that need to be taken to protect health, ensure continued compliance with the OHS Act, take steps to eliminate or minimize the risks and provide adequate and correct PPE equipment.

The Principal Contractor shall ensure that asbestos cement sheets are kept intact as far as is practicable. Whole asbestos sheets shall be Sprayed with TSW prior removal and transportation. All small fragments/asbestos chips shall be wetted prior to collection, be placed into heavy duty bags and be sealed and labelled as asbestos waste.

If the roof is fitted with gutters all run off water shall be passed through a fine sieve at each down pipe outlet. The filtered run off water may be channelled into the drainage system. The residue collected in the sieves shall be placed whilst still moist into heavy duty bags (at least 150 micron (1,5mm)) thickness and be sealed and labelled as asbestos waste.

All asbestos Waste (in sheet form, chips or residue) shall be disposed of at a licensed disposal and the Principal Contractor shall obtain the necessary asbestos waste permit to dispose of such waste. The Contractor shall be required to contact hand over to Transnet freight rail project manager the original certificate for the total quantity of asbestos received by the registered dumping site, before any payment on the contract will be approved.

635 Work description: Paint expose roof timber purlin.

Item include cleaning by washing off all dirt. Remove all loose, chalky, flaking, peeling paint from wood, sand and wipe off sanding dust with damp cloth and leave to dry before applying paint.

636 Work description: Paint expose roof timber sprockets and rafters.

Item include cleaning by washing off all dirt. Remove all loose, chalky, flaking, peeling paint from wood, sand and wipe off sanding dust with damp cloth and leave to dry before applying paint.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

- 641 Work description: Under eaves paint ceiling boards
 Work description: Paint ceiling complete 2 coat Paintwork to ceilings Include the cover strips, cornices and shall include the preparation of surfaces, including washing, filling, stopping, sanding, dusting and priming of nail heads or screws with universal undercoat. Apply two coats of acrylic PVA. All surfaces not being painted such as brickwork, sills, floors, joinery work and the like must be covered up and protected against spotting before any painting is commenced. No sweeping or dusting shall be done while painting is in progress or while paint is still wet.

FACIA/BARGE BOARDS

- 651 Work description: Fit / Replace fascia board.
 Provide 230 x 12mm nutec fibre cement fascia board. Fix nutec fascia boards to existing wood fascia boards using 2 no 8 * 38mm countersunk wood screws at 900mm intervals and 75mm from both sides of joints, one 30 mm from top edge and 30mm from bottom edge. Use right type of jointer at joints. The edge of fascia boards shall be cut vertically. Full length boards shall be used if necessary to joint in section of fascia board, these section shall not be shorter than 500mm. Fascia boards shall be fit in horizontal straight line
- 653 Work description: Paint fascia board steel / Cement fibre two coats
 STEEL FASCIA BOARDS: Clean from rust and dirt by scraping or by means of steel wire brush, sand completely and wipe off all sanding dust to obtain perfectly clean surface. Spot prime all exposed metal surface with an approved metal primer and apply two coats Plascon wall and all paint of Dulux wall guard paint
 CEMENT FIBRE FASCIA BOARDS WITH PAINT IN GOOD CONDITION: Clean from all dust and dirt with approved detergent and rinse with clean water. Remove all defective paint, sand completely wipe off all sanding dust with a damp cloth, spot prime all nail and screw heads and apply two coats Plascon wall and all paint of Dulux wall guard paint or approved paint for cement fibre products.

GUTTERS/DOWNSPIPES

- 660 Work description: Remove gutter and down pipe complete, including brackets, Remove gutters brackets with care as not to damage wood sprockets
- 664 Work description: Fit PVC gutters at coastal area
- 673 Work description: Fit PVC gutters as per manufacturers specifications

WALLS EXTERIOR

- 698 Work description: Do beam filling under corr iron, IBR or tile roof
 Beam filling shall be half brick wide, built with same mix mortar as used in the walls and shall be cut in between roof timbers and carried up to underside of roof covering If face bricks are specified, brick shall be straight and neatly cut.

Respondent's signature: _____ Date: ____/____/____

ANNEXURE A

ASSET DESCRIPTION: Messroom

ASSET LOCATION: Paardeneiland Marshalling yard

CITY / TOWN: Paardeneiland

WORK DESCRIPTION: Replace Asbestos roof.

TENDER NO: BLE/51826

ASSET NO: 02BAD27C

ITEM NO. SPECIFICATIONS PER ITEM.

ROOF

- 581 Work description: Replace ridging partly corr iron / IBR
Carefully unscrew roofing screws. Provide new ridging and fixed with screws.

- 590 Work description: fit new Sisalation aluminum foil roof insulation material
Supply and place in position across purlins and overlap to prevent any leakages

“PREVIEW COPY ONLY”

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

592 Work description: Fit new 0.80mm thick roof sheeting to steel structure
Supply and fit IBR profile sheets 0.8mm thick. The roof sheeting shall be laid in long lengths, narrow flutes outermost, with single flute side laps. The sheeting shall be laid with side-laps on the leeward side of the prevailing wind direction. An approved side-lap sealant shall be incorporated on roofing with a pitch of less than 15 degrees. All fixing holes shall be drilled and not punched. Roof sheets shall be fixed by means of No.14 Top speed Hex Head screws 65mm LG for steel purlin. Side-lap stitching shall be effected at no more than 600mm centres with 25mm LG Top speed Hex Head screws. Sheets shall be secured to purlin for 0.8mm thick sheets, a broad guideline for Purlin Spacing is not more than 2.30m centre for single span and not more than 2.65m for double span, cantilever not more than 0.60m but must meet manufacturer specification. Spacing are dependant on both downward loading and negative suction loading caused by wind a engineer must be consulted to calculate the load (kn/m²) for the particular thickness of sheets and purline spacing for the specific project.. Use 5.5mm x 82mm self drill posy screws with 26mm galvanized bonded rubber washer. Main fasteners shall be positioned in the crown of the second and fourth narrow flutes, i.e. two fasteners per sheet per purlin. Side laps shall be secured with fasteners spaced equally between purlin and at centres not exceeding 750mm. 15mm of the broad flute of all roof sheets shall be turned up through 45 deg. at the apex to form a dam and turned down through 10 deg. at the eaves to form a drip. Contractor to measure the required length before order the IBR roof sheets.

Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced.

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.

The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

615 Work description: Apply TSW to asbestos sheets

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

ALL WORK ON ASBESTOS ROOF TO BE DONE IN ACCORDANCE WITH ASBESTOS REGULATIONS.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

Once the roof has been washed, Apply TSW in concentrate form to asbestos sheets. This will ensure that all fibres have been bound and encapsulated. The process will seal the roof and prevent fungus from gaining a substantial foothold. TSW is a very good prep for paint and will educe the quantity required. Product can be applied via an airless spray gun or a low pressure backpack sprayer. Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

The roofing can now be left as is, or paint can be applied after 72 hours. HELPLINE 082 464 1074 Chris Davidson.

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT IDENTIFICATION: Product Identification - TSW. MSDS Preparation Date: 01/07/2009

2. COMPOSITION / INFORMATION ON INGREDIENTS: Sodium Silicate in aqueous solution with additives CAS # 1344-09-8

Dangerous components: None

3. HAZARD IDENTIFICATION: Emergency Overview - Contains alkaline materials which may cause skin and eye irritation.

CAUTION: CAN CAUSE SKIN AND EYE IRRITATION WITH PROLONGED EXPOSURE. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID SWALLOWING. WASH WELL AFTER HANDLING.

PRIMARY ROUTES OF EXPOSURE ARE ADSORPTION AND INGESTION.

EYES: Irritation and some reddening of the eyes.

SKIN: May cause dryness and / or tissue reddening.

INGESTION: May cause gastro-intestinal upset.

4. FIRST AID MEASURES: EYES: Flush with cool running water for 15 minutes.

SKIN: Wash with water for 15 minutes. INGESTION: Give large glasses of water or milk. Do not induce vomiting.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

5. FIRE FIGHTING MEASURES: Water based product which will not burn. Non flammable.

6. ACCIDENTAL RELEASE MEASURES: Avoid getting material on GLASS. If this occurs, wash immediately to remove all traces of the product. Accidental spillage. Wash thoroughly with water.

7. HANDLING AND STORAGE: Product is normally shipped in 25 litre and 210 litre plastic drums. Product may be stored in aluminium, steel, concrete, or plastic containers. Store in cool areas with original caps in place to prevent evaporation.

8. EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY PROTECTION: Use NIOSH approved respirator with alkaline vapour cartridges only if adequate ventilation is not available. PROTECTIVE GLOVES: Rubber or Plastic. EYE PROTECTION: Splash goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES: BOILING POINT: 212 DEG F (100 DEG C) PH 10.5 - 11 APPEARANCE -- Clear Fluid WATER SOLUBILITY 100% COLOUR -- None WT % SOLIDS 24 SPECIFIC GRAVITY -- 1.21 VISCOSITY -- Low

10. STABILITY AND REACTIVITY: Normally stable at temperatures above 5 degrees C. Product may cause a gelling effect to materials that contain acids or ammonia. Upon drying the crystals formed from this solution become sharp and abrasive. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION: Product is an alkaline solution, with no known chronic effects. Acute Oral Toxicity LD50 (rat) 2 000 – 3 000 mg/kg.

12. ECOLOGICAL INFORMATION: Prevent large spills from entering natural waters. 48 hour LC 50 for Fathead minnow is 11.1 mgms /L

13. DISPOSAL CONSIDERATIONS: Reuse spilled material if possible, otherwise check with local landfill requirements. Product is not regarded a hazardous material.

14. TRANSPORTATION INFORMATION: The product is not regulated as a hazardous material by the U.S. Department of Transportation.

15. REGULATORY INFORMATION: Exposure limits for Sodium Silicate Solutions have not been established by OSHA or ACGIH. Not listed on the TSCA Inventory nor, as a Carcinogen on the ASHA, IARC, or NTP lists.

16. OTHER INFORMATION: Keep out of reach of children. Product may be poured into sewers of food preparation facilities for purposes of drain unclogging.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

619 Work description: Remove asbestos roof sheets form roof

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the departmetn of labour at all times.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Area does not include roof sheet profile

Remove asbestos big six roof sheets in terms of the attached Government gazzete and asbestos regulations from the Department of labour.

Item include the spray of the top and bottom of the sheets before removing the roof sheets, Item also include spraying the overlap sections with TSW after the sheets had been removed before packing the sheets in container for disposal. All work to be done in accordance with the attached TSW specification.

All necessary scaffolding and use of ladders to remove sheets is included in the item and scaffolding and ladders will be erect, used and dismantle in accordance with the approved fall arrest and safety plan.

Before the removing of the asbestos sheets the contractor shall have the container of the registered asbestos removal company on site.

The following procedures shall be followed to prevent the release of asbestos dust into the enviroment.

- 1: Have container to pack the roof sheets in on site.
- 2: Have safety talk with staff about dangers of asbestos
- 3: Set up 10.0m wide excludion zone around building.
- 4: Issue all staf with all necessary PPE clothing and equipment.
- 5: Set up ladders and scaffolding as necessary and inspect by compitend persone before it is used by staff.
- 6: Spray both sides of sheets with TSW or simmilar aproved product.
- 7: Remove sheets in control manner with care and with out cutting or breaking sheets.
- 8: lay on ground and spray section that was cover by ovelap of sheets with TSW or simmilar aproved product.
- 9: Pack sheets in to container to be sent to aproved disposal site.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

620 Work description: Dispose of asbestos sheet and waste.

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

Pack all asbestos sheets in container as it is removed from roof, container shall be kept lock to prevent the removing of the sheets by un-authorized persons. Seal container and send to approved asbestos waste site in terms of the Environmental management Act. (Act No. 107 of 1998) and the Environmental Conservation Act (Act No 73. Of 1989) All work to be done in accordance with the attached specification and attached asbestos regulation.

Item include all cost to pack, load, transport, off load and the dumping cost.

Handling Of Asbestos Containing Material

The handling and removal of asbestos-containing materials and articles, such as asbestos cement sheets, present particular health problems as they often involve dismantling or breaking large quantities of friable materials. Such work, if any, shall be performed in accordance with the provisions of the OHS Act Asbestos Regulations, 2002 (in particular, but not limited to, Section 13 and 15) and any other international, national and local legislation, regulations as deemed applicable.

The Principal Contractor shall ensure that workers are thoroughly instructed about the precautions that need to be taken to protect health, ensure continued compliance with the OHS Act, take steps to eliminate or minimize the risks and provide adequate and correct PPE equipment.

The Principal Contractor shall ensure that asbestos cement sheets are kept intact as far as is practicable. Whole asbestos sheets shall be Sprayed with TSW prior removal and transportation. All small fragments/asbestos chips shall be wetted prior to collection, be placed into heavy duty bags and be sealed and labelled as asbestos waste.

If the roof is fitted with gutters all run off water shall be passed through a fine sieve at each down pipe outlet. The filtered run off water may be channelled into the drainage system. The residue collected in the sieves shall be placed whilst still moist into heavy duty bags (at least 150 micron (1,5mm)) thickness and be sealed and labelled as asbestos waste.

All asbestos Waste (in sheet form, chips or residue) shall be disposed of at a licensed disposal and the Principal Contractor shall obtain the necessary asbestos waste permit to dispose of such waste. The Contractor shall be required to contact hand over to Transnet freight rail project manager the original certificate for the total quantity of asbestos received by the registered dumping site, before any payment on the contract will be approved.

635 Work description: Paint expose roof timber purlin.

Item include cleaning by washing off all dirt. Remove all loose, chalky, flaking, peeling paint from wood, sand and wipe off sanding dust with damp cloth and leave to dry before applying paint.

636 Work description: Paint expose roof timber sprockets and rafters.

Item include cleaning by washing off all dirt. Remove all loose, chalky, flaking, peeling paint from wood, sand and wipe off sanding dust with damp cloth and leave to dry before applying paint.

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

- 641 Work description: Under eaves paint ceiling boards
 Work description: Paint ceiling complete 2 coat Paintwork to ceilings Include the cover strips, cornices and shall include the preparation of surfaces, including washing, filling, stopping, sanding, dusting and priming of nail heads or screws with universal undercoat. Apply two coats of acrylic PVA. All surfaces not being painted such as brickwork, sills, floors, joinery work and the like must be covered up and protected against spotting before any painting is commenced. No sweeping or dusting shall be done while painting is in progress or while paint is still wet.

FACIA/BARGE BOARDS

- 651 Work description: Fit / Replace fascia board.
 Provide 230 x 12mm nutec fibre cement fascia board. Fix nutec fascia boards to existing wood fascia boards using 2 no 8 * 38mm countersunk wood screws at 900mm intervals and 75mm from both sides of joints, one 30 mm from top edge and 30mm from bottom edge. Use right type of jointer at joints. The edge of fascia boards shall be cut vertically. Full length boards shall be used if necessary to joint in section of fascia board, these section shall not be shorter than 500mm. Fascia boards shall be fit in horizontal straight line
- 653 Work description: Paint fascia board steel / Cement fibre two coats
 STEEL FASCIA BOARDS: Clean from rust and dirt by scraping or by means of steel wire brush, sand completely and wipe off all sanding dust to obtain perfectly clean surface. Spot prime all exposed metal surface with an approved metal primer and apply two coats Plascon wall and all paint of Dulux wall guard paint
 CEMENT FIBRE FASCIA BOARDS WITH PAINT IN GOOD CONDITION: Clean from all dust and dirt with approved detergent and rinse with clean water. Remove all defective paint, sand completely wipe off all sanding dust with a damp cloth, spot prime all nail and screw heads and apply two coats Plascon wall and all paint of Dulux wall guard paint or approved paint for cement fibre products.

GUTTERS/DOWNSPIPES

- 660 Work description: Remove gutter and down pipe complete, including brackets, Remove gutters brackets with care as not to damage wood sprockets
- 664 Work description: Fit PVC gutters at coastal area
- 673 Work description: Fit PVC gutters as per manufacturers specifications

WALLS EXTERIOR

- 698 Work description: Do beam filling under corr iron, IBR or tile roof
 Beam filling shall be half brick wide, built with same mix mortar as used in the walls and shall be cut in between roof timbers and carried up to underside of roof covering If face bricks are specified, brick shall be straight and neatly cut.

Respondent's signature: _____ Date: ____/____/____

ANNEXURE A

ASSET DESCRIPTION: Relay room Marshalling yard

ASSET LOCATION: Marshalling yard

CITY / TOWN: Paardeneiland

WORK DESCRIPTION: Replace Asbestos roofs.

TENDER NO: BLE/51826

ASSET NO: 02BAD67C

ITEM NO. SPECIFICATIONS PER ITEM.

ROOF

- 580 Work description: Remove and replace roof covering to replace decay purline
- 581 Work description: Replace ridging partly corr iron / IBR
Carefully unscrew roofing screws. Provide new ridging and fixed with screws.
- 590 Work description: fit new Sisalation aluminum foil roof insulation material
Supply and place in position across purlins and overlap to prevent any leakages

“PREVIEW COPY ONLY”

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

592 Work description: Fit new 0.80mm thick roof sheeting to steel structure
Supply and fit IBR profile sheets 0.8mm thick. The roof sheeting shall be laid in long lengths, narrow flutes outermost, with single flute side laps. The sheeting shall be laid with side-laps on the leeward side of the prevailing wind direction. An approved side-lap sealant shall be incorporated on roofing with a pitch of less than 15 degrees. All fixing holes shall be drilled and not punched. Roof sheets shall be fixed by means of No.14 Top speed Hex Head screws 65mm LG for steel purlin. Side-lap stitching shall be effected at no more than 600mm centres with 25mm LG Top speed Hex Head screws. Sheets shall be secured to purlin for 0.8mm thick sheets, a broad guideline for Purlin Spacing is not more than 2.30m centre for single span and not more than 2.65m for double span, cantilever not more than 0.60m but must meet manufacturer specification. Spacing are dependant on both downward loading and negative suction loading caused by wind a engineer must be consulted to calculate the load (kn/m²) for the particular thickness of sheets and purline spacing for the specific project.. Use 5.5mm x 82mm self drill posy screws with 26mm galvanized bonded rubber washer. Main fasteners shall be positioned in the crown of the second and fourth narrow flutes, i.e. two fasteners per sheet per purlin. Side laps shall be secured with fasteners spaced equally between purlin and at centres not exceeding 750mm. 15mm of the broad flute of all roof sheets shall be turned up through 45 deg. at the apex to form a dam and turned down through 10 deg. at the eaves to form a drip. Contractor to measure the required length before order the IBR roof sheets.

Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced.

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.

The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

615 Work description: Apply TSW to asbestos sheets

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

ALL WORK ON ASBESTOS ROOF TO BE DONE IN ACCORDANCE WITH ASBESTOS REGULATIONS.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

Once the roof has been washed, Apply TSW in concentrate form to asbestos sheets. This will ensure that all fibres have been bound and encapsulated. The process will seal the roof and prevent fungus from gaining a substantial foothold. TSW is a very good prep for paint and will educe the quantity required. Product can be applied via an airless spray gun or a low pressure backpack sprayer. Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

The roofing can now be left as is, or paint can be applied after 72 hours. HELPLINE 082 464 1074 Chris Davidson.

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT IDENTIFICATION: Product Identification - TSW. MSDS Preparation Date: 01/07/2009

2. COMPOSITION / INFORMATION ON INGREDIENTS: Sodium Silicate in aqueous solution with additives CAS # 1344-09-8

Dangerous components: None

3. HAZARD IDENTIFICATION: Emergency Overview - Contains alkaline materials which may cause skin and eye irritation.

CAUTION: CAN CAUSE SKIN AND EYE IRRITATION WITH PROLONGED EXPOSURE. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID SWALLOWING. WASH WELL AFTER HANDLING.

PRIMARY ROUTES OF EXPOSURE ARE ADSORPTION AND INGESTION.

EYES: Irritation and some reddening of the eyes. SKIN: May cause dryness and / or tissue reddening. INGESTION: May cause gastro-intestinal upset.

4. FIRST AID MEASURES: EYES: Flush with cool running water for 15 minutes. SKIN: Wash with water for 15 minutes. INGESTION: Give large glasses of water or milk. Do not induce vomiting.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

5. FIRE FIGHTING MEASURES: Water based product which will not burn. Non flammable.

6. ACCIDENTAL RELEASE MEASURES: Avoid getting material on GLASS. If this occurs, wash immediately to remove all traces of the product. Accidental spillage. Wash thoroughly with water.

7. HANDLING AND STORAGE: Product is normally shipped in 25 litre and 210 litre plastic drums. Product may be stored in aluminium, steel, concrete, or plastic containers. Store in cool areas with original caps in place to prevent evaporation.

8. EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY PROTECTION: Use NIOSH approved respirator with alkaline vapour cartridges only if adequate ventilation is not available. PROTECTIVE GLOVES: Rubber or Plastic. EYE PROTECTION: Splash goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES: BOILING POINT: 212 DEG F (100 DEG C) PH 10.5 - 11 APPEARANCE -- Clear Fluid WATER SOLUBILITY 100% COLOUR -- None WT % SOLIDS 24 SPECIFIC GRAVITY -- 1.21 VISCOSITY -- Low

10. STABILITY AND REACTIVITY: Normally stable at temperatures above 5 degrees C. Product may cause a gelling effect to materials that contain acids or ammonia. Upon drying the crystals formed from this solution become sharp and abrasive. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION: Product is an alkaline solution, with no known chronic effects. Acute Oral Toxicity LD50 (rat) 2 000 – 3 000 mg/kg.

12. ECOLOGICAL INFORMATION: Prevent large spills from entering natural waters. 48 hour LC 50 for Fathead minnow is 11.1 mgms /L

13. DISPOSAL CONSIDERATIONS: Reuse spilled material if possible, otherwise check with local landfill requirements. Product is not regarded a hazardous material.

14. TRANSPORTATION INFORMATION: The product is not regulated as a hazardous material by the U.S. Department of Transportation.

15. REGULATORY INFORMATION: Exposure limits for Sodium Silicate Solutions have not been established by OSHA or ACGIH. Not listed on the TSCA Inventory nor, as a Carcinogen on the ASHA, IARC, or NTP lists.

16. OTHER INFORMATION: Keep out of reach of children. Product may be poured into sewers of food preparation facilities for purposes of drain unclogging.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

619 Work description: Remove asbestos roof sheets form roof

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the departmetn of labour at all times.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Area does not include roof sheet profile

Remove asbestos big six roof sheets in terms of the attached Government gazzete and asbestos regulations from the Department of labour.

Item include the spray of the top and bottom of the sheets before removing the roof sheets, Item also include spraying the overlap sections with TSW after the sheets had been removed before packing the sheets in container for disposal. All work to be done in accordance with the attached TSW specification.

All necessary scaffolding and use of ladders to remove sheets is included in the item and scaffolding and ladders will be erect, used and dismantle in accordance with the approved fall arrest and safety plan.

Before the removing of the asbestos sheets the contractor shall have the container of the registered asbestos removal company on site.

The following procedures shall be followed to prevent the release of asbestos dust into the enviroment.

- 1: Have container to pack the roof sheets in on site.
- 2: Have safety talk with staff about dangers of asbestos
- 3: Set up 10.0m wide excludion zone around building.
- 4: Issue all staf with all necessary PPE clothing and equipment.
- 5: Set up ladders and scaffolding as necessary and inspect by compitend persone before it is used by staff.
- 6: Spray both sides of sheets with TSW or simmilar aproved product.
- 7: Remove sheets in control manner with care and with out cutting or breaking sheets.
- 8: lay on ground and spray section that was cover by ovelap of sheets with TSW or simmilar aproved product.
- 9: Pack sheets in to container to be sent to aproved disposal site.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

620 Work description: Dispose of asbestos sheet and waste.

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

Pack all asbestos sheets in container as it is removed from roof, container shall be kept lock to prevent the removing of the sheets by un-authorized persons. Seal container and send to approved asbestos waste site in terms of the Environmental management Act. (Act No. 107 of 1998) and the Environmental Conservation Act (Act No 73. Of 1989) All work to be done in accordance with the attached specification and attached asbestos regulation.

Item include all cost to pack, load, transport, off load and the dumping cost.

Handling Of Asbestos Containing Material

The handling and removal of asbestos-containing materials and articles, such as asbestos cement sheets, present particular health problems as they often involve dismantling or breaking large quantities of friable materials. Such work, if any, shall be performed in accordance with the provisions of the OHS Act Asbestos Regulations, 2002 (in particular, but not limited to, Section 13 and 15) and any other international, national and local legislation, regulations as deemed applicable.

The Principal Contractor shall ensure that workers are thoroughly instructed about the precautions that need to be taken to protect health, ensure continued compliance with the OHS Act, take steps to eliminate or minimize the risks and provide adequate and correct PPE equipment.

The Principal Contractor shall ensure that asbestos cement sheets are kept intact as far as is practicable. Whole asbestos sheets shall be Sprayed with TSW prior removal and transportation. All small fragments/asbestos chips shall be wetted prior to collection, be placed into heavy duty bags and be sealed and labelled as asbestos waste.

If the roof is fitted with gutters all run off water shall be passed through a fine sieve at each down pipe outlet. The filtered run off water may be channelled into the drainage system. The residue collected in the sieves shall be placed whilst still moist into heavy duty bags (at least 150 micron (1,5mm)) thickness and be sealed and labelled as asbestos waste.

All asbestos Waste (in sheet form, chips or residue) shall be disposed of at a licensed disposal and the Principal Contractor shall obtain the necessary asbestos waste permit to dispose of such waste. The Contractor shall be required to contact hand over to Transnet freight rail project manager the original certificate for the total quantity of asbestos received by the registered dumping site, before any payment on the contract will be approved.

635 Work description: Paint expose roof timber purlin.

Item include cleaning by washing off all dirt. Remove all loose, chalky, flaking, peeling paint from wood, sand and wipe off sanding dust with damp cloth and leave to dry before applying paint.

636 Work description: Paint expose roof timber sprockets and rafters.

Item include cleaning by washing off all dirt. Remove all loose, chalky, flaking, peeling paint from wood, sand and wipe off sanding dust with damp cloth and leave to dry before applying paint.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

- 641 Work description: Under eaves paint ceiling boards
 Work description: Paint ceiling complete 2 coat Paintwork to ceilings Include the cover strips, cornices and shall include the preparation of surfaces, including washing, filling, stopping, sanding, dusting and priming of nail heads or screws with universal undercoat. Apply two coats of acrylic PVA. All surfaces not being painted such as brickwork, sills, floors, joinery work and the like must be covered up and protected against spotting before any painting is commenced. No sweeping or dusting shall be done while painting is in progress or while paint is still wet.

FACIA/BARGE BOARDS

- 649 Work description: Fit / Replace barge board
 Carefully loosen sheet iron capping where applicable or take down and remove galvanized capping where applicable. Take down barge boards and remove from site. Were necessary cut roof sheeting to be level with purline ends. The verges of roof to be finished with 225 x 10mm thick plain pressed fibre cement barge boards with bottom ends projecting 100mm beyond fascia board or in line with outer edge of gutter stop end, The edge of barge boards at bottom end shall be cut vertical level. The barge boards shall be securely fixed to projecting purlin ends with galvanized barge board brackets. Full length boards shall be used if necessary to joint in section of barge board the section shall not be shorter than 500mm.
- 651 Work description: Fit / Replace fascia board.
 Provide 230 x 12mm nutec fibre cement fascia board. Fix nutec fascia boards to existing wood fascia boards using 2 no 8 * 38mm countersunk wood screws at 900mm intervals and 75mm from both sides of joints, one 30 mm from top edge and 30mm from bottom edge. Use right type of jointer at joints. The edge of fascia boards shall be cut vertically. Full length boards shall be used if necessary to joint in section of fascia board, these section shall not be shorter than 500mm. Facia boards shall be fit in horizontal straight line
- 653 Work description: Paint fascia board steel / Cement fibre two coats
STEEL FASCIA BOARDS: Clean from rust and dirt by scraping or by means of steel wire brush, sand completely and wipe off all sanding dust to obtain perfectly clean surface. Spot prime all exposed metal surface with an approved metal primer and apply two coats Plascon wall and all paint of Dulux wall guard paint
CEMENT FIBRE FASCIA BOARDS WITH PAINT IN GOOD CONDITION: Clean from all dust and dirt with approved detergent and rinse with clean water. Remove all defective paint, sand completely wipe off all sanding dust with a damp cloth, spot prime all nail and screw heads and apply two coats Plascon wall and all paint of Dulux wall guard paint or approved paint for cement fibre products.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

- 654 Work description: Paint Barge board steel / Cement fibre two coats
 STEEL FASCIA BOARDS: Clean from rust and dirt by scraping or by means of steel wire brush, sand completely and wipe off all sanding dust to obtain perfectly clean surface. Spot prime all exposed metal surface with an approved metal primer and apply two coats Plascon wall and all paint of Dulux wall guard paint
 CEMENT FIBRE BARGE BOARDS WITH PAINT IN GOOD CONDITION: Clean from all dust and dirt with approved detergent and rinse with clean water. Remove all defective paint, sand completely wipe off all sanding dust with a damp cloth, spot prime all nail and screw heads and apply two coats Plascon wall and all paint of Dulux wall guard paint or approved paint for cement fibre products.
 CEMENT FIBRE BARGE BOARDS WITH PAINT IN BAD CONDITION: Remove all paint coatings back to bare surface. sand down to a smooth surface, spot prime nail and screw heads with universal undercoat and paint surfaces two coats Plascon wall and all or with two coats Dulux wall guard paint.
 NEW CEMENT FIBRE BARGE BOARDS NEW
 Clean, spot prime nail and screw heads with universal undercoat and paint surfaces two coats Plascon wall and all or with two coats Dulux wall guard paint.

GUTTERS/DOWNSPIPES

- 660 Work description: Remove gutter and down pipe complete, including brackets, Remove gutters brackets with care as not to damage wood sprockets
- 664 Work description: Fit PVC gutters at coastal area
- 673 Work description: Fit PVC gutters as per manufacturers specifications

WALLS EXTERIOR

- 698 Work description: Do beam filling under corr iron, IBR or tile roof
 Beam filling shall be half brick wide, built with same mix mortar as used in the walls and shall be cut in between roof timbers and carried up to underside of roof covering If face bricks are specified, brick shall be straight and neatly cut.

“PREVIEW COPY ONLY”

Respondent's signature: _____ Date: ____/____/____

ANNEXURE A

ASSET DESCRIPTION: Store

ASSET LOCATION: Marhalling yard

CITY / TOWN: Paardeneiland

WORK DESCRIPTION: Replace Asbestos roof.

TENDER NO: BLE/51826

ASSET NO: 02NAD02C

ITEM NO. SPECIFICATIONS PER ITEM.

ROOF

590 Work description: fit new Sisalation aluminum foil roof insulation material
Supply and place in position across purlins and overlap to prevent any leakages

“PREVIEW COPY ONLY”

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

592 Work description: Fit new 0.80mm thick roof sheeting to steel structure
Supply and fit IBR profile sheets 0.8mm thick. The roof sheeting shall be laid in long lengths, narrow flutes outermost, with single flute side laps. The sheeting shall be laid with side-laps on the leeward side of the prevailing wind direction. An approved side-lap sealant shall be incorporated on roofing with a pitch of less than 15 degrees. All fixing holes shall be drilled and not punched. Roof sheets shall be fixed by means of No.14 Top speed Hex Head screws 65mm LG for steel purlin. Side-lap stitching shall be effected at no more than 600mm centres with 25mm LG Top speed Hex Head screws. Sheets shall be secured to purlin for 0.8mm thick sheets, a broad guideline for Purlin Spacing is not more than 2.30m centre for single span and not more than 2.65m for double span, cantilever not more than 0.60m but must meet manufacturer specification. Spacing are dependant on both downward loading and negative suction loading caused by wind a engineer must be consulted to calculate the load (kn/m²) for the particular thickness of sheets and purline spacing for the specific project.. Use 5.5mm x 82mm self drill posy screws with 26mm galvanized bonded rubber washer. Main fasteners shall be positioned in the crown of the second and fourth narrow flutes, i.e. two fasteners per sheet per purlin. Side laps shall be secured with fasteners spaced equally between purlin and at centres not exceeding 750mm. 15mm of the broad flute of all roof sheets shall be turned up through 45 deg. at the apex to form a dam and turned down through 10 deg. at the eaves to form a drip. Contractor to measure the required length before order the IBR roof sheets.

Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced.

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.

The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

Respondent's signature: _____ **Date:** ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

615 Work description: Apply TSW to asbestos sheets

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

ALL WORK ON ASBESTOS ROOF TO BE DONE IN ACCORDANCE WITH ASBESTOS REGULATIONS.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

Once the roof has been washed, Apply TSW in concentrate form to asbestos sheets. This will ensure that all fibres have been bound and encapsulated. The process will seal the roof and prevent fungus from gaining a substantial foothold. TSW is a very good prep for paint and will educe the quantity required. Product can be applied via an airless spray gun or a low pressure backpack sprayer. Apply TSW in a sweeping motion, back and forth until the product is no longer absorbed into the roof.

The roofing can now be left as is, or paint can be applied after 72 hours. HELPLINE 082 464 1074 Chris Davidson.

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT IDENTIFICATION: Product Identification - TSW. MSDS Preparation Date: 01/07/2009

2. COMPOSITION / INFORMATION ON INGREDIENTS: Sodium Silicate in aqueous solution with additives CAS # 1344-09-8

Dangerous components: None

3. HAZARD IDENTIFICATION: Emergency Overview - Contains alkaline materials which may cause skin and eye irritation.

CAUTION: CAN CAUSE SKIN AND EYE IRRITATION WITH PROLONGED EXPOSURE. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID SWALLOWING. WASH WELL AFTER HANDLING.

PRIMARY ROUTES OF EXPOSURE ARE ADSORPTION AND INGESTION.

EYES: Irritation and some reddening of the eyes. SKIN: May cause dryness and / or tissue reddening. INGESTION: May cause gastro-intestinal upset.

4. FIRST AID MEASURES: EYES: Flush with cool running water for 15 minutes. SKIN: Wash with water for 15 minutes. INGESTION: Give large glasses of water or milk. Do not induce vomiting.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

5. FIRE FIGHTING MEASURES: Water based product which will not burn. Non flammable.

6. ACCIDENTAL RELEASE MEASURES: Avoid getting material on GLASS. If this occurs, wash immediately to remove all traces of the product. Accidental spillage. Wash thoroughly with water.

7. HANDLING AND STORAGE: Product is normally shipped in 25 litre and 210 litre plastic drums. Product may be stored in aluminium, steel, concrete, or plastic containers. Store in cool areas with original caps in place to prevent evaporation.

8. EXPOSURE CONTROL / PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY PROTECTION: Use NIOSH approved respirator with alkaline vapour cartridges only if adequate ventilation is not available. PROTECTIVE GLOVES: Rubber or Plastic. EYE PROTECTION: Splash goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES: BOILING POINT: 212 DEG F (100 DEG C) PH 10.5 - 11 APPEARANCE -- Clear Fluid WATER SOLUBILITY 100% COLOUR -- None WT % SOLIDS 24 SPECIFIC GRAVITY -- 1.21 VISCOSITY -- Low

10. STABILITY AND REACTIVITY: Normally stable at temperatures above 5 degrees C. Product may cause a gelling effect to materials that contain acids or ammonia. Upon drying the crystals formed from this solution become sharp and abrasive. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION: Product is an alkaline solution, with no known chronic effects. Acute Oral Toxicity LD50 (rat) 2 000 – 3 000 mg/kg.

12. ECOLOGICAL INFORMATION: Prevent large spills from entering natural waters. 48 hour LC 50 for Fathead minnow is 11.1 mgms /L

13. DISPOSAL CONSIDERATIONS: Reuse spilled material if possible, otherwise check with local landfill requirements. Product is not regarded a hazardous material.

14. TRANSPORTATION INFORMATION: The product is not regulated as a hazardous material by the U.S. Department of Transportation.

15. REGULATORY INFORMATION: Exposure limits for Sodium Silicate Solutions have not been established by OSHA or ACGIH. Not listed on the TSCA Inventory nor, as a Carcinogen on the ASHA, IARC, or NTP lists.

16. OTHER INFORMATION: Keep out of reach of children. Product may be poured into sewers of food preparation facilities for purposes of drain unclogging.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

619 Work description: Remove asbestos roof sheets form roof

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the departmetn of labour at all times.

Special precaution as per asbestos regulation shall be taken to safe guard workers from falling through roof sheet and to prevent breaking sheets when walking on roof any sheets that is broken by contractor shall be replace by contractor on his cost.

Area does not include roof sheet profile

Remove asbestos big six roof sheets in terms of the attached Government gazzete and asbestos regulations from the Department of labour.

Item include the spray of the top and bottom of the sheets before removing the roof sheets, Item also include spraying the overlap sections with TSW after the sheets had been removed before packing the sheets in container for disposal. All work to be done in accordance with the attached TSW specification.

All necessary scaffolding and use of ladders to remove sheets is included in the item and scaffolding and ladders will be erect, used and dismantle in accordance with the approved fall arrest and safety plan.

Before the removing of the asbestos sheets the contractor shall have the container of the registered asbestos removal company on site.

The following procedures shall be followed to prevent the release of asbestos dust into the enviroment.

- 1: Have container to pack the roof sheets in on site.
- 2: Have safety talk with staff about dangers of asbestos
- 3: Set up 10.0m wide excludion zone around building.
- 4: Issue all staf with all necessary PPE clothing and equipment.
- 5: Set up ladders and scaffolding as necessary and inspect by compitend persone before it is used by staff.
- 6: Spray both sides of sheets with TSW or simmilar aproved product.
- 7: Remove sheets in control manner with care and with out cutting or breaking sheets.
- 8: lay on ground and spray section that was cover by ovelap of sheets with TSW or simmilar aproved product.
- 9: Pack sheets in to container to be sent to aproved disposal site.

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

620 Work description: Dispose of asbestos sheet and waste.

Staff to be fully kitted with PPE as specified in attached Government gazette and attached asbestos regulations of the department of labour at all times.

Area does not include roof sheet profile

Pack all asbestos sheets in container as it is removed from roof, container shall be kept lock to prevent the removing of the sheets by un-authorized persons. Seal container and send to approved asbestos waste site in terms of the Environmental management Act. (Act No. 107 of 1998) and the Environmental Conservation Act (Act No 73. Of 1989) All work to be done in accordance with the attached specification and attached asbestos regulation.

Item include all cost to pack, load, transport, off load and the dumping cost.

Handling Of Asbestos Containing Material

The handling and removal of asbestos-containing materials and articles, such as asbestos cement sheets, present particular health problems as they often involve dismantling or breaking large quantities of friable materials. Such work, if any, shall be performed in accordance with the provisions of the OHS Act Asbestos Regulations, 2002 (in particular, but not limited to, Section 13 and 15) and any other international, national and local legislation, regulations as deemed applicable.

The Principal Contractor shall ensure that workers are thoroughly instructed about the precautions that need to be taken to protect health, ensure continued compliance with the OHS Act, take steps to eliminate or minimize the risks and provide adequate and correct PPE equipment.

The Principal Contractor shall ensure that asbestos cement sheets are kept intact as far as is practicable. Whole asbestos sheets shall be Sprayed with TSW prior removal and transportation. All small fragments/asbestos chips shall be wetted prior to collection, be placed into heavy duty bags and be sealed and labelled as asbestos waste.

If the roof is fitted with gutters all run off water shall be passed through a fine sieve at each down pipe outlet. The filtered run off water may be channelled into the drainage system. The residue collected in the sieves shall be placed whilst still moist into heavy duty bags (at least 150 micron (1,5mm)) thickness and be sealed and labelled as asbestos waste.

All asbestos Waste (in sheet form, chips or residue) shall be disposed of at a licensed disposal and the Principal Contractor shall obtain the necessary asbestos waste permit to dispose of such waste. The Contractor shall be required to contact hand over to Transnet freight rail project manager the original certificate for the total quantity of asbestos received by the registered dumping site, before any payment on the contract will be approved.

FACIA/BARGE BOARDS

Respondent's signature: _____ Date: ____/____/____

ITEM NO. SPECIFICATIONS PER ITEM.

- 649 Work description: Fit / Replace barge board
Carefully loosen sheet iron capping where applicable or take down and remove galvanized capping where applicable. Take down barge boards and remove from site. Where necessary cut roof sheeting to be level with purline ends. The verges of roof to be finished with 225 x 10mm thick plain pressed fibre cement barge boards with bottom ends projecting 100mm beyond fascia board or in line with outer edge of gutter stop end, The edge of barge boards at bottom end shall be cut vertical level. The barge boards shall be securely fixed to projecting purlin ends with galvanized barge board brackets. Full length boards shall be used if necessary to joint in section of barge board the section shall not be shorter than 500mm.
- 651 Work description: Fit / Replace fascia board.
Provide 230 x 12mm nutec fibre cement fascia board. Fix nutec fascia boards to existing wood fascia boards using 2 no 8 * 38mm countersunk wood screws at 900mm intervals and 75mm from both sides of joints, one 30 mm from top edge and 30mm from bottom edge. Use right type of jointer at joints. The edge of fascia boards shall be cut vertically. Full length boards shall be used if necessary to joint in section of fascia board, these section shall not be shorter than 500mm. Fascia boards shall be fit in horizontal straight line
- 653 Work description: Paint fascia board steel / Cement fibre two coats
STEEL FASCIA BOARDS: Clean from rust and dirt by scraping or by means of steel wire brush, sand completely and wipe off all sanding dust to obtain perfectly clean surface. Spot prime all exposed metal surface with an approved metal primer and apply two coats Plascon wall and all paint of Dulux wall guard paint
CEMENT FIBRE FASCIA BOARDS WITH PAINT IN GOOD CONDITION: Clean from all dust and dirt with approved detergent and rinse with clean water. Remove all defective paint, sand completely wipe off all sanding dust with a damp cloth, spot prime all nail and screw heads and apply two coats Plascon wall and all paint of Dulux wall guard paint or approved paint for cement fibre products.
- 654 Work description: Paint Barge board steel / Cement fibre two coats
STEEL FASCIA BOARDS: Clean from rust and dirt by scraping or by means of steel wire brush, sand completely and wipe off all sanding dust to obtain perfectly clean surface. Spot prime all exposed metal surface with an approved metal primer and apply two coats Plascon wall and all paint of Dulux wall guard paint
CEMENT FIBRE BARGE BOARDS WITH PAINT IN GOOD CONDITION: Clean from all dust and dirt with approved detergent and rinse with clean water. Remove all defective paint, sand completely wipe off all sanding dust with a damp cloth, spot prime all nail and screw heads and apply two coats Plascon wall and all paint of Dulux wall guard paint or approved paint for cement fibre products.
CEMENT FIBRE BARGE BOARDS WITH PAINT IN BAD CONDITION: Remove all paint coatings back to bare surface. sand down to a smooth surface, spot prime nail and screw heads with universal undercoat and paint surfaces two coats Plascon wall and all or with two coats Dulux wall guard paint.
NEW CEMENT FIBRE BARGE BOARDS NEW
Clean, spot prime nail and screw heads with universal undercoat and paint surfaces two coats Plascon wall and all or with two coats Dulux wall guard paint.

GUTTERS/DOWNPINES

- 672 Work description: Fit/replace down pipe, complete.
Down pipes shall be fitted with all necessary offsets shoes and holder bats. Down pipes shall be fixed vertical level.
- 673 Work description: Fit PVC downpipes.

Respondent's signature: _____ **Date:** ____/____/____

TENDER NO: BLE/51826

ASSET NO: 02NAD02C

ITEM NO. SPECIFICATIONS PER ITEM.

WALLS EXTERIOR

- 698 Work description: Do beam filling under corr iron, IBR or tile roof
Beam filling shall be half brick wide, built with same mix mortar as used in the walls and shall be cut in between roof timbers and carried up to underside of roof covering If face bricks are specified, brick shall be straight and neatly cut.

“PREVIEW COPY ONLY”

Respondent's signature: _____ Date: ____/____/____

ANNEXURE B
TENDER PRICE LIST PER ITEM

ASSET DESCRIPTION: Mess & ablutions

CITY / TOWN: Saltriver

TENDER NO: BLE/51826

ASSET NO: 02BAD61C

WORK DESCRIPTION: Replace Asbestos roof.

TENDER PRICE LIST TO INTERIOR AND EXTERIOR WORK TO BUILDINGS

Measurements and or quantities do not include off cuts or waste all measurements of material is measure as nett fixed. Contractor to add his own % for off cuts and waste.

The contractor is responsible to check all the measurements and quantities before ordering any material. The measurement and quantities are only a guide for tender purposes.

Value Added Tax (VAT) shall be excluded in the schedule of rates and prices.

To be supplied by the Contractor: The Contractor shall provide all labour, material, transport, consumable stores, plant, equipment, tools, services, materials and ingredients of every description required for the carrying out and completion of the WORK as per the attached work list and specification and as may be ordered by the Project Manager.

GENERAL: The Building will be occupied during renovations, The Project manager, contractor and manager of the TFR staff using the building will discuss and agree on site the maintenance plan for the building. The necessary move of furniture in the same room if necessary is included in all the items. All normal cleaning, preparation include sanding, stopping and wash of items to be painted as specified by the paint manufacturer is included in all the paint items. Were abnormal cleaning is required it will be specified as an additional item. All scaffolding and use of ladders up to 4.50m high interior and exterior if and as necessary is part of all the items. All work shall be done according to the attached specifications and shall comply with the National building regulations. Unless otherwise specified all materials must comply with SANS specifications.

Where no applicable SANS Specification exists the materials must be approved by the Transnet Freight Rail project manager.

All material shall be fitted, install or applied as specified by the manufacture.

The contractor shall be liable for any damages cause by him or his staff to any Transnet Freight Rail property or equipment.

SAFETY: The contractor shall comply with the Occupational Health Safety Act, 1993 (Act 85 of 1993).

Page 1 of 3	SUB TOTAL	PAGE 1	
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TENDER NO: BLE/51826

ASSET NO: 02BAD61C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
ROOF					
581	Replace Asbestos ridging with ridging for IBR roof	17	M		
590	Supply new Sisalation Aluminuim foil roof insulation sheeting.	142	M^2		
592	Fit 0.8mm thick IBR profile roof sheet to steel structure up to ??0m high, purline spacing, fitting as per attached specification and as per manufacture specification. (Chromodek from clotun steel) work done as per approved by safety plan	142	M^2		

Respondent's signature: _____ **Date:** ____/____/____

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TENDER NO: BLE/51826

ASSET NO: 02BAD61C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
615	Apply TSW or approved product in concentrate form to asbestos sheets. To seal or paint roof. TSW can be applied via an airless spray gun or a low pressure backpack sprayer. Apply until the TSW product is no longer absorbed into sheets . See attached spec	142	M^2		
619	Remove asbestos roof sheets from roof in terms of the attached spec and asbestos regulations. Before removing sheets spray both sides with TSW. Scaffolding and ladders to remove sheets is included in item. Item exclude removal of the roof construction.	142	M^2		
620	Dispose of asbestos sheets. Pack all asbestos sheets in lockable container. Send asbestos sheets to approved asbestos waste site in terms of the Environmental management Act.(Act No.107 of 1998) and the Environmental Conservation Act(Act No 73. of 1989)	142	JOB		
635	Paint exposed roof timber purlin, paint 1 pink wood primer, 1 coat universal undercoat and 2 coats white Dulux roof guard paint. apply paint only after preparation as per attached specification	34	M		
636	Paint exposed roof timber sprockets,300mm 1 coat universal undercoat and 2 coats white Dulux wall guard or Dulux roof guard. bare wood areas shall be spot primed with wood primer. apply paint only after preparation as per attached specification.	20	EA		
641	Do preparations as specified and supply paint and paint under eaves ceilings two coats paint. see attached paint specification)	20	M^2		
FACIA/BARGE BOARDS					
649	Fit barge board, nutec-cement barge board. item includes h-profile joiners as necessary. do all work as per attached detailed specification	20	M		
651	Fit fascia board, nutec-cement type 225mm x 12mm thick. item include h-profile fascia joiners and h-profile fascia corner jointers. do all work as per attached specification	34	M		
653	Paint fascia board steel / nutec fibre cement, 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attached specification has been done	34	M^2		
654	Paint barge board steel / nutec-cement 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attaché specification had been done	20	M^2		
GUTTERS/DOWNPIPES					
660	Remove gutters complete with brackets, down pipes and down pipe holder bats, item include the fill of down pipe holder bat holes in wall with cement	34	M		
664	Fit PVC gutters at coastal area	34	M		
673	Fit PVC down pipes	2	EA		
WALLS EXTERIOR					
698	Do beam filling under corr iron, IBR or tile roof covering with stock bricks	54	M		

Respondent's signature: _____ Date: ____/____/____

TENDER NO: BLE/51826

ASSET NO: 02BAD61C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
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TOTAL PAGE 1 TO PAGE 3 R

PRELIMINARY AND GENERAL

P and G shall include all cost not directly relate to a specific item on the schedule of prices and rates. All items not specifically mentioned in the Schedule of Rates and prices and form part of contractor's requirements such as cost of stationery, as well as establishment of workers on site and removal of site establishment, it will also include the handing over of the site to the contractor and the handing back of the site after completion of work .

P + G

R

RISK AND SAFETY

Cost for the risk and saftey must include the risk assessment. The risk assesment is a full identification of the risks before the work starts and the necessary equipment, appropriate precautions and systems of work that must be provided and Implemented.

RISK AND SAFETY R

Cost for risk and safety include complete compliance with the current Occupational Health Safety Act.

Included in risk and safety. The standardised Transnet Freight Rail induction shall be given to all staff of all contractors at the start of each project and the contractors shall send all his staff that will work on the Transnet Freight Rail site to the induction on the date as agreed on between TFR Project manager and the contractor.

TOTAL PRICE CIVIL WORK EXLUDE VAT R

The total price for Civil and electrical work, excluding VAT, must be carried over as one total amount to the Service Fees and Cost Form, Section 6 of the RFQ. The amount must also be written in words on the Service Fees and Cost Form.

Respondent's signature: _____ Date: ____/____/____

ANNEXURE B
TENDER PRICE LIST PER ITEM

ASSET DESCRIPTION: Messroom

CITY / TOWN: Paardeneiland

TENDER NO: BLE/51826

ASSET NO: 02BAD21C

WORK DESCRIPTION: Replace asbestos roof.

TENDER PRICE LIST TO INTERIOR AND EXTERIOR WORK TO BUILDINGS

Measurements and or quantities do not include off cuts or waste all measurements of material is measure as nett fixed. Contractor to add his own % for off cuts and waste.

The contractor is responsible to check all the measurements and quantities before ordering any material. The measurement and quantities are only a guide for tender purposes.

Value Added Tax (VAT) shall be excluded in the schedule of rates and prices.

To be supplied by the Contractor: The Contractor shall provide all labour, material, transport, consumable stores, plant, equipment, tools, services, materials and ingredients of every description required for the carrying out and completion of the WORK as per the attached work list and specification and as may be ordered by the Project Manager.

GENERAL: The Building will be occupied during renovations, The Project manager, contractor and manager of the TFR staff using the building will discuss and agree on site the maintenance plan for the building. The necessary move of furniture in the same room if necessary is included in all the items. All normal cleaning, preparation include sanding, stopping and wash of items to be painted as specified by the paint manufacturer is included in all the paint items. Were abnormal cleaning is required it will be specified as an additional item. All scaffolding and use of ladders up to 4.50m high interior and exterior if and as necessary is part of all the items. All work shall be done according to the attached specifications and shall comply with the National building regulations. Unless otherwise specified all materials must comply with SANS specifications.

Where no applicable SANS Specification exists the materials must be approved by the Transnet Freight Rail project manager.

All material shall be fitted, install or applied as specified by the manufacture.

The contractor shall be liable for any damages cause by him or his staff to any Transnet Freight Rail property or equipment.

SAFETY: The contractor shall comply with the Occupational Health Safety Act, 1993 (Act 85 of 1993).

Page 1 of 3	SUB TOTAL	PAGE 1	
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TENDER NO: BLE/51826

ASSET NO: 02BAD21C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
ROOF					
581	Replace Asbestos ridging with ridging for IBR roof	22	M		
590	Supply new Sisalation Aluminuim foil roof insulation sheeting.	121	M^2		
592	Fit 0.8mm thick IBR profile roof sheet to steel structure up to ??0m high, purline spacing, fitting as per attached specification and as per manufacture specification. (Chromodek from clotun steel) work done as per approved by safety plan	121	M^2		

Respondent's signature: _____ **Date:** ____/____/____

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TENDER NO: BLE/51826

ASSET NO: 02BAD21C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
615	Apply TSW or approved product in concentrate form to asbestos sheets. To seal or paint roof. TSW can be applied via an airless spray gun or a low pressure backpack sprayer. Apply until the TSW product is no longer absorbed into sheets . See attached spec	121	M^2		
619	Remove asbestos roof sheets from roof in terms of the attached spec and asbestos regulations. Before removing sheets spray both sides with TSW. Scaffolding and ladders to remove sheets is included in item. Item exclude removal of the roof construction.	121	M^2		
620	Dispose of asbestos sheets. Pack all asbestos sheets in lockable container. Send asbestos sheets to approved asbestos waste site in terms of the Environmental management Act.(Act No.107 of 1998) and the Environmental Conservation Act(Act No 73. of 1989)	121	JOB		
635	Paint exposed roof timber purlin, paint 1 pink wood primer, 1 coat universal undercoat and 2 coats white Dulux roof guard paint. apply paint only after preparation as per attached specification	38	M		
636	Paint exposed roof timber sprockets,300mm 1 coat universal undercoat and 2 coats white Dulux wall guard or Dulux roof guard. bare wood areas shall be spot primed with wood primer. apply paint only after preparation as per attached specification.	54	EA		
FACIA/BARGE BOARDS					
649	Fit barge board, nutec-cement barge board. item includes h-profile joiners as necessary. do all work as per attached detailed specification	9	M		
650	Replace damage or missing fascia board section to match existing type, size	50	M		
651	Fit fascia board, nutec-cement type 225mm x 12mm thick. item include h-profile fascia joiners and h-profile fascia corner jointers. do all work as per attached specification	45	M		
653	Paint fascia board steel / nutec fibre cement, 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attached specification has been done	61	M^2		
654	Paint barge board steel / nutec-cement 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attaché specification had been done	59	M^2		
GUTTERS/DOWNPIPES					
660	Remove gutters complete with brackets, down pipes and down pipe holder bats, item include the fill of down pipe holder bat holes in wall with cement	41	M		
664	Fit PVC gutters at coastal area	34	M		
673	Fit PVC down pipes	4	EA		
WALLS EXTERIOR					
698	Do beam filling under corr iron, IBR or tile roof covering with stock bricks	51	M		

Respondent's signature: _____ Date: ____/____/____

TENDER NO: BLE/51826

ASSET NO: 02BAD21C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
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TOTAL PAGE 1 TO PAGE 3 R

PRELIMINARY AND GENERAL

P and G shall include all cost not directly relate to a specific item on the schedule of prices and rates. All items not specifically mentioned in the Schedule of Rates and prices and form part of contractor's requirements such as cost of stationery, as well as establishment of workers on site and removal of site establishment, it will also include the handing over of the site to the contractor and the handing back of the site after completion of work .

P + G

R

RISK AND SAFETY

Cost for the risk and saftey must include the risk assessment. The risk assesment is a full identification of the risks before the work starts and the necessary equipment, appropriate precautions and systems of work that must be provided and Implemented.

RISK AND SAFETY R

Cost for risk and safety include complete compliance with the current Occupational Health Safety Act.

Included in risk and safety. The standardised Transnet Freight Rail induction shall be given to all staff of all contractors at the start of each project and the contractors shall send all his staff that will work on the Transnet Freight Rail site to the induction on the date as agreed on between TFR Project manager and the contractor.

TOTAL PRICE CIVIL WORK EXLUDE VAT R

The total price for Civil and electrical work, excluding VAT, must be carried over as one total amount to the Service Fees and Cost Form, Section 6 of the RFQ. The amount must also be written in words on the Service Fees and Cost Form.

Respondent's signature: _____ Date: ____/____/____

ANNEXURE B
TENDER PRICE LIST PER ITEM

ASSET DESCRIPTION: Messroom

CITY / TOWN: Paardeneiland

TENDER NO: BLE/51826

ASSET NO: 02BAD21C

WORK DESCRIPTION: Replace asbestos roof.

TENDER PRICE LIST TO INTERIOR AND EXTERIOR WORK TO BUILDINGS

Measurements and or quantities do not include off cuts or waste all measurements of material is measure as nett fixed. Contractor to add his own % for off cuts and waste.

The contractor is responsible to check all the measurements and quantities before ordering any material. The measurement and quantities are only a guide for tender purposes.

Value Added Tax (VAT) shall be excluded in the schedule of rates and prices.

To be supplied by the Contractor: The Contractor shall provide all labour, material, transport, consumable stores, plant, equipment, tools, services, materials and ingredients of every description required for the carrying out and completion of the WORK as per the attached work list and specification and as may be ordered by the Project Manager.

GENERAL: The Building will be occupied during renovations, The Project manager, contractor and manager of the TFR staff using the building will discuss and agree on site the maintenance plan for the building. The necessary move of furniture in the same room if necessary is included in all the items. All normal cleaning, preparation include sanding, stopping and wash of items to be painted as specified by the paint manufacturer is included in all the paint items. Were abnormal cleaning is required it will be specified as an additional item. All scaffolding and use of ladders up to 4.50m high interior and exterior if and as necessary is part of all the items. All work shall be done according to the attached specifications and shall comply with the National building regulations. Unless otherwise specified all materials must comply with SANS specifications.

Where no applicable SANS Specification exists the materials must be approved by the Transnet Freight Rail project manager.

All material shall be fitted, install or applied as specified by the manufacture.

The contractor shall be liable for any damages cause by him or his staff to any Transnet Freight Rail property or equipment.

SAFETY: The contractor shall comply with the Occupational Health Safety Act, 1993 (Act 85 of 1993).

Page 1 of 3		SUB TOTAL	PAGE 1	
TENDER NO: BLE/51826		ASSET NO: 02BAD21C		

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
ROOF					
581	Replace Asbestos ridging with ridging for IBR roof	22	M		
590	Supply new Sisalation Aluminuim foil roof insulation sheeting.	121	M^2		
592	Fit 0.8mm thick IBR profile roof sheet to steel structure up to ??0m high, purline spacing, fitting as per attached specification and as per manufacture specification. (Chromodek from clotun steel) work done as per approved by safety plan	121	M^2		

Respondent's signature: _____ **Date:** ____/____/____

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TENDER NO: BLE/51826

ASSET NO: 02BAD21C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
615	Apply TSW or approved product in concentrate form to asbestos sheets. To seal or paint roof. TSW can be applied via an airless spray gun or a low pressure backpack sprayer. Apply until the TSW product is no longer absorbed into sheets . See attached spec	121	M^2		
619	Remove asbestos roof sheets from roof in terms of the attached spec and asbestos regulations. Before removing sheets spray both sides with TSW. Scaffolding and ladders to remove sheets is included in item. Item exclude removal of the roof construction.	121	M^2		
620	Dispose of asbestos sheets. Pack all asbestos sheets in lockable container. Send asbestos sheets to approved asbestos waste site in terms of the Environmental management Act.(Act No.107 of 1998) and the Environmental Conservation Act(Act No 73. of 1989)	121	JOB		
635	Paint exposed roof timber purlin, paint 1 pink wood primer, 1 coat universal undercoat and 2 coats white Dulux roof guard paint. apply paint only after preparation as per attached specification	38	M		
636	Paint exposed roof timber sprockets,300mm 1 coat universal undercoat and 2 coats white Dulux wall guard or Dulux roof guard. bare wood areas shall be spot primed with wood primer. apply paint only after preparation as per attached specification.	54	EA		
FACIA/BARGE BOARDS					
649	Fit barge board, nutec-cement barge board. item includes h-profile joiners as necessary. do all work as per attached detailed specification	9	M		
650	Replace damage or missing fascia board section to match existing type, size	50	M		
651	Fit fascia board, nutec-cement type 225mm x 12mm thick. item include h-profile fascia joiners and h-profile fascia corner jointers. do all work as per attached specification	45	M		
653	Paint fascia board steel / nutec fibre cement, 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attached specification has been done	61	M^2		
654	Paint barge board steel / nutec-cement 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attaché specification had been done	59	M^2		
GUTTERS/DOWNPINES					
660	Remove gutters complete with brackets, down pipes and down pipe holder bats, item include the fill of down pipe holder bat holes in wall with cement	41	M		
664	Fit PVC gutters at coastal area	34	M		
673	Fit PVC down pipes	4	EA		
WALLS EXTERIOR					
698	Do beam filling under corr iron, IBR or tile roof covering with stock bricks	51	M		

Respondent's signature: _____ Date: ____/____/____

TENDER NO: BLE/51826

ASSET NO: 02BAD21C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
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TOTAL PAGE 1 TO PAGE 3 R

PRELIMINARY AND GENERAL

P and G shall include all cost not directly relate to a specific item on the schedule of prices and rates. All items not specifically mentioned in the Schedule of Rates and prices and form part of contractor's requirements such as cost of stationery, as well as establishment of workers on site and removal of site establishment, it will also include the handing over of the site to the contractor and the handing back of the site after completion of work .

P + G

R

RISK AND SAFETY

Cost for the risk and saftey must include the risk assessment. The risk assesment is a full identification of the risks before the work starts and the necessary equipment, appropriate precautions and systems of work that must be provided and Implemented.

RISK AND SAFETY R

Cost for risk and safety include complete compliance with the current Occupational Health Safety Act.

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TOTAL PRICE CIVIL WORK EXLUDE VAT R

The total price for Civil and electrical work, excluding VAT, must be carried over as one total amount to the Service Fees and Cost Form, Section 6 of the RFQ. The amount must also be written in words on the Service Fees and Cost Form.

Respondent's signature: _____ Date: ____/____/____

ANNEXURE B
TENDER PRICE LIST PER ITEM

ASSET DESCRIPTION: Mess & Ablutions Alpha concrete.

CITY / TOWN: Woodstock

TENDER NO: BLE/51826

ASSET NO: 02BAD71C

WORK DESCRIPTION: Replace Asbestos roof.

TENDER PRICE LIST TO INTERIOR AND EXTERIOR WORK TO BUILDINGS

Measurements and or quantities do not include off cuts or waste all measurements of material is measure as nett fixed. Contractor to add his own % for off cuts and waste.

The contractor is responsible to check all the measurements and quantities before ordering any material. The measurement and quantities are only a guide for tender purposes.

Value Added Tax (VAT) shall be excluded in the schedule of rates and prices.

To be supplied by the Contractor: The Contractor shall provide all labour, material, transport, consumable stores, plant, equipment, tools, services, materials and ingredients of every description required for the carrying out and completion of the WORK as per the attached work list and specification and as may be ordered by the Project Manager.

GENERAL: The Building will be occupied during renovations, The Project manager, contractor and manager of the TFR staff using the building will discuss and agree on site the maintenance plan for the building. The necessary move of furniture in the same room if necessary is included in all the items. All normal cleaning, preparation include sanding, stopping and wash of items to be painted as specified by the paint manufacturer is included in all the paint items. Were abnormal cleaning is required it will be specified as an additional item. All scaffolding and use of ladders up to 4.50m high interior and exterior if and as necessary is part of all the items. All work shall be done according to the attached specifications and shall comply with the National building regulations. Unless otherwise specified all materials must comply with SANS specifications.

Where no applicable SANS Specification exists the materials must be approved by the Transnet Freight Rail project manager.

All material shall be fitted, install or applied as specified by the manufacture.

The contractor shall be liable for any damages cause by him or his staff to any Transnet Freight Rail property or equipment.

SAFETY: The contractor shall comply with the Occupational Health Safety Act, 1993 (Act 85 of 1993).

Page 1 of 3	SUB TOTAL	PAGE 1	<div style="border: 1px solid black; width: 100px; height: 20px;"></div>
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TENDER NO: BLE/51826

ASSET NO: 02BAD71C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
ROOF					
581	Replace Asbestos ridging with ridging suitable for IBR roofing.	28	M		
590	Supply new Sisalation Aluminuim foil roof insulation sheeting.	322	M^2		
592	Fit 0.8mm thick IBR profile roof sheet to steel structure up to ??0m high, purline spacing, fitting as per attached specification and as per manufacture specification. (Chromodek from clotun steel) work done as per approved by safety plan	322	M^2		

Respondent's signature: _____ **Date:** ____/____/____

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TENDER NO: BLE/51826

ASSET NO: 02BAD71C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
615	Apply TSW or approved product in concentrate form to asbestos sheets. To seal or paint roof. TSW can be applied via an airless spray gun or a low pressure backpack sprayer. Apply until the TSW product is no longer absorbed into sheets . See attached spec	322	M^2		
619	Remove asbestos roof sheets from roof in terms of the attached spec and asbestos regulations. Before removing sheets spray both sides with TSW. Scaffolding and ladders to remove sheets is included in item. Item exclude removal of the roof construction.	322	M^2		
620	Dispose of asbestos sheets. Pack all asbestos sheets in lockable container. Send asbestos sheets to approved asbestos waste site in terms of the Environmental management Act.(Act No.107 of 1998) and the Environmental Conservation Act(Act No 73. of 1989)	322	JOB		
635	Paint exposed roof timber purlin, paint 1 pink wood primer, 1 coat universal undercoat and 2 coats white Dulux roof guard paint. apply paint only after preparation as per attached specification	76	M^2		
636	Paint exposed sprockets,400mm and rafters 900mm 1 coat universal undercoat and 2 coats white Dulux wall guard or Dulux roof guard. bare wood areas shall be spot primed with wood primer. apply paint only after preparation as per attached specification.	32	EA		
FACIA/BARGE BOARDS					
649	Fit barge board, nutec-cement barge board. item includes h-profile joiners as necessary. do all work as per attached detailed specification	34	M		
651	Fit fascia board, nutec-cement type 225mm x 12mm thick. item include h-profile fascia joiners and h-profile fascia corner jointers. do all work as per attached specification	76	M		
653	Paint fascia board steel / nutec fibre cement, 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attached specification has been done	76	M^2		
654	Paint barge board steel / nutec-cement 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attaché specification had been done	34	M^2		
GUTTERS/DOWNPINES					
660	Remove gutters complete with brackets, down pipes and down pipe holder bats, item include the fill of down pipe holder bat holes in wall with cement	76	M		
664	Fit PVC gutters at coastal area	76	M		
673	Fit PVC down pipes	6	EA		
WALLS EXTERIOR					
698	Do beam filling under corr iron, IBR or tile roof covering with stock bricks	101	M		

Respondent's signature: _____ Date: ____/____/____

TENDER NO: BLE/51826

ASSET NO: 02BAD71C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
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TOTAL PAGE 1 TO PAGE 3 R

PRELIMINARY AND GENERAL

P and G shall include all cost not directly relate to a specific item on the schedule of prices and rates. All items not specifically mentioned in the Schedule of Rates and prices and form part of contractor's requirements such as cost of stationery, as well as establishment of workers on site and removal of site establishment, it will also include the handing over of the site to the contractor and the handing back of the site after completion of work .

P + G

R

RISK AND SAFETY

Cost for the risk and saftey must include the risk assessment. The risk assesment is a full identification of the risks before the work starts and the necessary equipment, appropriate precautions and systems of work that must be provided and Implemented.

RISK AND SAFETY R

Cost for risk and safety include complete compliance with the current Occupational Health Safety Act.

Included in risk and safety. The standardised Transnet Freight Rail induction shall be given to all staff of all contractors at the start of each project and the contractors shall send all his staff that will work on the Transnet Freight Rail site to the induction on the date as agreed on between TFR Project manager and the contractor.

TOTAL PRICE CIVIL WORK EXLUDE VAT R

The total price for Civil and electrical work, excluding VAT, must be carried over as one total amount to the Service Fees and Cost Form, Section 6 of the RFQ. The amount must also be written in words on the Service Fees and Cost Form.

Respondent's signature: _____ Date: ____/____/____

ANNEXURE B
TENDER PRICE LIST PER ITEM

ASSET DESCRIPTION: Messroom

CITY / TOWN: Paardeneiland.

TENDER NO: BLE/51826

ASSET NO: 02BAD20C

WORK DESCRIPTION: Replace Asbestos roofsheets.

TENDER PRICE LIST TO INTERIOR AND EXTERIOR WORK TO BUILDINGS

Measurements and or quantities do not include off cuts or waste all measurements of material is measure as nett fixed. Contractor to add his own % for off cuts and waste.

The contractor is responsible to check all the measurements and quantities before ordering any material. The measurement and quantities are only a guide for tender purposes.

Value Added Tax (VAT) shall be excluded in the schedule of rates and prices.

To be supplied by the Contractor: The Contractor shall provide all labour, material, transport, consumable stores, plant, equipment, tools, services, materials and ingredients of every description required for the carrying out and completion of the WORK as per the attached work list and specification and as may be ordered by the Project Manager.

GENERAL: The Building will be occupied during renovations, The Project manager, contractor and manager of the TFR staff using the building will discuss and agree on site the maintenance plan for the building. The necessary move of furniture in the same room if necessary is included in all the items. All normal cleaning, preparation include sanding, stopping and wash of items to be painted as specified by the paint manufacturer is included in all the paint items. Were abnormal cleaning is required it will be specified as an additional item. All scaffolding and use of ladders up to 4.50m high interior and exterior if and as necessary is part of all the items. All work shall be done according to the attached specifications and shall comply with the National building regulations. Unless otherwise specified all materials must comply with SANS specifications.

Where no applicable SANS Specification exists the materials must be approved by the Transnet Freight Rail project manager.

All material shall be fitted, install or applied as specified by the manufacture.

The contractor shall be liable for any damages cause by him or his staff to any Transnet Freight Rail property or equipment.

SAFETY: The contractor shall comply with the Occupational Health Safety Act, 1993 (Act 85 of 1993).

Page 1 of 3	SUB TOTAL	PAGE 1	
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TENDER NO: BLE/51826

ASSET NO: 02BAD20C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
ROOF					
580	Remove and replace roof covering corr iron or IBR to replace decay purline	170	M^2		
581	Replace Asbestos ridging with ridging suitable for IBR roofing.	46	M		
590	Supply new Sisalation Aluminuim foil roof insulation sheeting.	170	M^2		

Respondent's signature: _____ **Date:** ____/____/____

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TENDER NO: BLE/51826

ASSET NO: 02BAD20C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
592	Fit 0.8mm thick IBR profile roof sheet to steel structure up to ???.0m high, purline spacing, fitting as per attached specification and as per manufacture specification. (Chromodek from clotun steel) work done as per approved by safety plan	170	M^2		
615	Apply TSW or approved product in concentrate form to asbestos sheets. To seal or paint roof. TSW can be applied via an airless spray gun or a low pressure backpack sprayer. Apply until the TSW product is no longer absorbed into sheets . See attached spec	170	M^2		
619	Remove asbestos roof sheets from roof in terms of the attached spec and asbestos regulations. Before removing sheets spray both sides with TSW. Scaffolding and ladders to remove sheets is included in item. Item exclude removal of the roof construction.	170	M^2		
620	Dispose of asbestos sheets. Pack all asbestos sheets in lockable container. Send asbestos sheets to approved asbestos waste site in terms of the Environmental management Act.(Act No.107 of 1998) and the Environmental Conservation Act(Act No 73. of 1989)	170	JOB		
635	Paint exposed roof timber purlin, paint 1 pink wood primer, 1 coat universal undercoat and 2 coats white Dulux roof guard paint. apply paint only after preparation as per attached specification	76	M^2		
636	Paint exposed sprockets,400mm and rafters 900mm 1 coat universal undercoat and 2 coats white Dulux wall guard or Dulux roof guard. bare wood areas shall be spot primed with wood primer. apply paint only after preparation as per attached specification.	116	EA		
641	Do preparations as specified and supply paint and paint under eaves ceilings two coats paint. see attached paint specification)	20	M^2		
FACIA/BARGE BOARDS					
651	Fit fascia board, nutec-cement type 225mm x 12mm thick. item include h-profile fascia joiners and h-profile fascia corner jointers. do all work as per attached specification	62	M		
653	Paint fascia board steel / nutec fibre cement, 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attached specification has been done	62	M^2		
GUTTERS/DOWNPINES					
660	Remove gutters complete with brackets, down pipes and down pipe holder bats, item include the fill of down pipe holder bat holes in wall with cement	8	M		
664	Fit PVC gutters at coastal area	64	M		
673	Fit PVC down pipes	6	EA		
WALLS EXTERIOR					
698	Do beam filling under corr iron, IBR or tile roof covering with stock bricks	62	M		

Respondent's signature: _____ Date: ____/____/____

TENDER NO: BLE/51826

ASSET NO: 02BAD20C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
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TOTAL PAGE 1 TO PAGE 3 R

PRELIMINARY AND GENERAL

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P + G

R

RISK AND SAFETY

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TOTAL PRICE CIVIL WORK EXLUDE VAT R

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Respondent's signature: _____ Date: ____/____/____

ANNEXURE B
TENDER PRICE LIST PER ITEM

ASSET DESCRIPTION: Messroom

CITY / TOWN: Paardeneiland

TENDER NO: BLE/51826

ASSET NO: 02BAD27C

WORK DESCRIPTION: Replace Asbestos roof.

TENDER PRICE LIST TO INTERIOR AND EXTERIOR WORK TO BUILDINGS

Measurements and or quantities do not include off cuts or waste all measurements of material is measure as nett fixed. Contractor to add his own % for off cuts and waste.

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SAFETY: The contractor shall comply with the Occupational Health Safety Act, 1993 (Act 85 of 1993).

Page 1 of 3	SUB TOTAL	PAGE 1	<input type="text"/>
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TENDER NO: BLE/51826

ASSET NO: 02BAD27C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
ROOF					
581	Replace Asbestos ridging with ridging suitable for IBR roofing.	56	M	<input type="text"/>	<input type="text"/>
590	Supply new Sisalation Aluminuim foil roof insulation sheeting.	304	M^2	<input type="text"/>	<input type="text"/>
592	Fit 0.8mm thick IBR profile roof sheet to steel structure up to ??0m high, purline spacing, fitting as per attached specification and as per manufacture specification. (Chromodek from clotun steel) work done as per approved by safety plan	304	M^2	<input type="text"/>	<input type="text"/>

Respondent's signature: _____ **Date:** ____/____/____

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TENDER NO: BLE/51826

ASSET NO: 02BAD27C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
615	Apply TSW or approved product in concentrate form to asbestos sheets. To seal or paint roof. TSW can be applied via an airless spray gun or a low pressure backpack sprayer. Apply until the TSW product is no longer absorbed into sheets . See attached spec	304	M^2		
619	Remove asbestos roof sheets from roof in terms of the attached spec and asbestos regulations. Before removing sheets spray both sides with TSW. Scaffolding and ladders to remove sheets is included in item. Item exclude removal of the roof construction.	304	M^2		
620	Dispose of asbestos sheets. Pack all asbestos sheets in lockable container. Send asbestos sheets to approved asbestos waste site in terms of the Environmental management Act.(Act No.107 of 1998) and the Environmental Conservation Act(Act No 73. of 1989)	304	JOB		
635	Paint exposed roof timber purlin, paint 1 pink wood primer, 1 coat universal undercoat and 2 coats white Dulux roof guard paint. apply paint only after preparation as per attached specification	76	M^2		
636	Paint exposed sprockets,400mm and rafters 900mm 1 coat universal undercoat and 2 coats white Dulux wall guard or Dulux roof guard. bare wood areas shall be spot primed with wood primer. apply paint only after preparation as per attached specification.	116	EA		
641	Do preparations as specified and supply paint and paint under eaves ceilings two coats paint. see attached paint specification)	20	M^2		
FACIA/BARGE BOARDS					
651	Fit fascia board, nutec-cement type 225mm x 12mm thick. item include h-profile fascia joiners and h-profile fascia corner jointers. do all work as per attached specification	96	M		
653	Paint fascia board steel / nutec fibre cement, 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attached specification has been done	96	M^2		
GUTTERS/DOWNPAPES					
660	Remove gutters complete with brackets, down pipes and down pipe holder bats, item include the fill of down pipe holder bat holes in wall with cement	8	M		
664	Fit PVC gutters at coastal area	96	M		
673	Fit PVC down pipes	8	EA		
WALLS EXTERIOR					
698	Do beam filling under corr iron, IBR or tile roof covering with stock bricks	98	M		

Respondent's signature: _____ Date: ____/____/____

TENDER NO: BLE/51826

ASSET NO: 02BAD27C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
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TOTAL PAGE 1 TO PAGE 3 R

PRELIMINARY AND GENERAL

P and G shall include all cost not directly relate to a specific item on the schedule of prices and rates. All items not specifically mentioned in the Schedule of Rates and prices and form part of contractor's requirements such as cost of stationery, as well as establishment of workers on site and removal of site establishment, it will also include the handing over of the site to the contractor and the handing back of the site after completion of work .

P + G

R

RISK AND SAFETY

Cost for the risk and saftey must include the risk assessment. The risk assesment is a full identification of the risks before the work starts and the necessary equipment, appropriate precautions and systems of work that must be provided and Implemented.

RISK AND SAFETY R

Cost for risk and safety include complete compliance with the current Occupational Health Safety Act.

Included in risk and safety. The standardised Transnet Freight Rail induction shall be given to all staff of all contractors at the start of each project and the contractors shall send all his staff that will work on the Transnet Freight Rail site to the induction on the date as agreed on between TFR Project manager and the contractor.

TOTAL PRICE CIVIL WORK EXLUDE VAT R

The total price for Civil and electrical work, excluding VAT, must be carried over as one total amount to the Service Fees and Cost Form, Section 6 of the RFQ. The amount must also be written in words on the Service Fees and Cost Form.

Respondent's signature: _____ Date: ____/____/____

ANNEXURE B
TENDER PRICE LIST PER ITEM

ASSET DESCRIPTION: Relay room Marshalling yard

CITY / TOWN: Paardeneiland

TENDER NO: BLE/51826

ASSET NO: 02BAD67C

WORK DESCRIPTION: Replace Asbestos roofs.

TENDER PRICE LIST TO INTERIOR AND EXTERIOR WORK TO BUILDINGS

Measurements and or quantities do not include off cuts or waste all measurements of material is measure as nett fixed. Contractor to add his own % for off cuts and waste.

The contractor is responsible to check all the measurements and quantities before ordering any material. The measurement and quantities are only a guide for tender purposes.

Value Added Tax (VAT) shall be excluded in the schedule of rates and prices.

To be supplied by the Contractor: The Contractor shall provide all labour, material, transport, consumable stores, plant, equipment, tools, services, materials and ingredients of every description required for the carrying out and completion of the WORK as per the attached work list and specification and as may be ordered by the Project Manager.

GENERAL: The Building will be occupied during renovations, The Project manager, contractor and manager of the TFR staff using the building will discuss and agree on site the maintenance plan for the building. The necessary move of furniture in the same room if necessary is included in all the items. All normal cleaning, preparation include sanding, stopping and wash of items to be painted as specified by the paint manufacturer is included in all the paint items. Were abnormal cleaning is required it will be specified as an additional item. All scaffolding and use of ladders up to 4.50m high interior and exterior if and as necessary is part of all the items. All work shall be done according to the attached specifications and shall comply with the National building regulations. Unless otherwise specified all materials must comply with SANS specifications.

Where no applicable SANS Specification exists the materials must be approved by the Transnet Freight Rail project manager.

All material shall be fitted, install or applied as specified by the manufacture.

The contractor shall be liable for any damages cause by him or his staff to any Transnet Freight Rail property or equipment.

SAFETY: The contractor shall comply with the Occupational Health Safety Act, 1993 (Act 85 of 1993).

Page 1 of 3	SUB TOTAL	PAGE 1	
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TENDER NO: BLE/51826

ASSET NO: 02BAD67C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
ROOF					
580	Remove and replace roof covering corr iron or IBR to replace decay purline	210	M^2		
581	Replace Asbestos ridging with ridging suitable for IBR roofing.	38	M		
590	Supply new Sisalation Aluminuim foil roof insulation sheeting.	210	M^2		

Respondent's signature: _____ **Date:** ____ / ____ / ____

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TENDER NO: BLE/51826

ASSET NO: 02BAD67C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
592	Fit 0.8mm thick IBR profile roof sheet to steel structure up to ??0m high, purline spacing, fitting as per attached specification and as per manufacture specification. (Chromodek from clotun steel) work done as per approved by safety plan	210	M^2		
615	Apply TSW or approved product in concentrate form to asbestos sheets. To seal or paint roof. TSW can be applied via an airless spray gun or a low pressure backpack sprayer. Apply until the TSW product is no longer absorbed into sheets . See attached spec	210	M^2		
619	Remove asbestos roof sheets from roof in terms of the attached spec and asbestos regulations. Before removing sheets spray both sides with TSW. Scaffolding and ladders to remove sheets is included in item. Item exclude removal of the roof construction.	210	M^2		
620	Dispose of asbestos sheets. Pack all asbestos sheets in lockable container. Send asbestos sheets to approved asbestos waste site in terms of the Environmental management Act.(Act No.107 of 1998) and the Environmental Conservation Act(Act No 73. of 1989)	210	JOB		
635	Paint exposed roof timber purlin, paint 1 pink wood primer, 1 coat universal undercoat and 2 coats white Dulux roof guard paint. apply paint only after preparation as per attached specification	76	M^2		
636	Paint exposed sprockets,400mm and rafters 900mm 1 coat universal undercoat and 2 coats white Dulux wall guard or Dulux roof guard. bare wood areas shall be spot primed with wood primer. apply paint only after preparation as per attached specification.	42	EA		
641	Do preparations as specified and supply paint and paint under eaves ceilings two coats paint. see attached paint specification)	20	M^2		
FACIA/BARGE BOARDS					
649	Fit barge board, nutec-cement barge board. item includes h-profile joiners as necessary. do all work as per attached detailed specification	33	M		
651	Fit fascia board, nutec-cement type 225mm x 12mm thick. item include h-profile fascia joiners and h-profile fascia corner jointers. do all work as per attached specification	38	M		
653	Paint fascia board steel / nutec fibre cement, 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attached specification has been done	38	M^2		
654	Paint barge board steel / nutec-cement 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attaché specification had been done	33	M^2		
GUTTERS/DOWNPINES					
660	Remove gutters complete with brackets, down pipes and down pipe holder bats, item include the fill of down pipe holder bat holes in wall with cement	38	M		
664	Fit PVC gutters at coastal area	38	M		
673	Fit PVC down pipes	4	EA		
WALLS EXTERIOR					
698	Do beam filling under corr iron, IBR or tile roof covering with stock bricks	72	M		

Respondent's signature: _____ Date: ____/____/____

TENDER NO: BLE/51826

ASSET NO: 02BAD67C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
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TOTAL PAGE 1 TO PAGE 3 R

PRELIMINARY AND GENERAL

P and G shall include all cost not directly relate to a specific item on the schedule of prices and rates. All items not specifically mentioned in the Schedule of Rates and prices and form part of contractor's requirements such as cost of stationery, as well as establishment of workers on site and removal of site establishment, it will also include the handing over of the site to the contractor and the handing back of the site after completion of work .

P + G

R

RISK AND SAFETY

Cost for the risk and saftey must include the risk assessment. The risk assesment is a full identification of the risks before the work starts and the necessary equipment, appropriate precautions and systems of work that must be provided and Implemented.

RISK AND SAFETY R

Cost for risk and safety include complete compliance with the current Occupational Health Safety Act.

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TOTAL PRICE CIVIL WORK EXLUDE VAT R

The total price for Civil and electrical work, excluding VAT, must be carried over as one total amount to the Service Fees and Cost Form, Section 6 of the RFQ. The amount must also be written in words on the Service Fees and Cost Form.

Respondent's signature: _____ Date: ____/____/____

ANNEXURE B
TENDER PRICE LIST PER ITEM

ASSET DESCRIPTION: Store

CITY / TOWN: Paardeneiland

TENDER NO: BLE/51826

ASSET NO: 02NAD02C

WORK DESCRIPTION: Replace Asbestos roof.

TENDER PRICE LIST TO INTERIOR AND EXTERIOR WORK TO BUILDINGS

Measurements and or quantities do not include off cuts or waste all measurements of material is measure as nett fixed. Contractor to add his own % for off cuts and waste.

The contractor is responsible to check all the measurements and quantities before ordering any material. The measurement and quantities are only a guide for tender purposes.

Value Added Tax (VAT) shall be excluded in the schedule of rates and prices.

To be supplied by the Contractor: The Contractor shall provide all labour, material, transport, consumable stores, plant, equipment, tools, services, materials and ingredients of every description required for the carrying out and completion of the WORK as per the attached work list and specification and as may be ordered by the Project Manager.

GENERAL: The Building will be occupied during renovations, The Project manager, contractor and manager of the TFR staff using the building will discuss and agree on site the maintenance plan for the building. The necessary move of furniture in the same room if necessary is included in all the items. All normal cleaning, preparation include sanding, stopping and wash of items to be painted as specified by the paint manufacturer is included in all the paint items. Were abnormal cleaning is required it will be specified as an additional item. All scaffolding and use of ladders up to 4.50m high interior and exterior if and as necessary is part of all the items. All work shall be done according to the attached specifications and shall comply with the National building regulations. Unless otherwise specified all materials must comply with SANS specifications.

Where no applicable SANS Specification exists the materials must be approved by the Transnet Freight Rail project manager.

All material shall be fitted, install or applied as specified by the manufacture.

The contractor shall be liable for any damages cause by him or his staff to any Transnet Freight Rail property or equipment.

SAFETY: The contractor shall comply with the Occupational Health Safety Act, 1993 (Act 85 of 1993).

Page 1 of 3	SUB TOTAL	PAGE 1	<input type="text"/>
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TENDER NO: BLE/51826

ASSET NO: 02NAD02C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
ROOF					
590	Supply new Sisalation Aluminuim foil roof insulation sheeting.	9	M^2	<input type="text"/>	<input type="text"/>
592	Fit 0.8mm thick IBR profile roof sheet to steel structure up to ??0m high, purline spacing, fitting as per attached specification and as per manufacture specification. (Chromodek from clotun steel) work done as per approved by safety plan	9	M^2	<input type="text"/>	<input type="text"/>

Respondent's signature: _____ **Date:** ____/____/____

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TENDER NO: BLE/51826

ASSET NO: 02NAD02C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
615	Apply TSW or approved product in concentrate form to asbestos sheets. To seal or paint roof. TSW can be applied via an airless spray gun or a low pressure backpack sprayer. Apply until the TSW product is no longer absorbed into sheets . See attached spec	9	M^2		
619	Remove asbestos roof sheets from roof in terms of the attached spec and asbestos regulations. Before removing sheets spray both sides with TSW. Scaffolding and ladders to remove sheets is included in item. Item exclude removal of the roof construction.	9	M^2		
620	Dispose of asbestos sheets. Pack all asbestos sheets in lockable container. Send asbestos sheets to approved asbestos waste site in terms of the Environmental management Act.(Act No.107 of 1998) and the Environmental Conservation Act(Act No 73. of 1989)	9	M^2		
FACIA/BARGE BOARDS					
649	Fit barge board, nutec-cement barge board. item includes h-profile joiners as necessary. do all work as per attached detailed specification	9	M		
651	Fit fascia board, nutec-cement type 225mm x 12mm thick. item include h-profile fascia joiners and h-profile fascia corner jointers. do all work as per attached specification	9	M		
653	Paint fascia board steel / nutec fibre cement, 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attached specification has been done	9	M^2		
654	Paint barge board steel / nutec-cement 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attaché specification had been done	9	M^2		
GUTTERS/DOWNPINES					
672	Fit square down pipe 100mm x 75mm to match square gutters, complete item includes one offset and one shoe up to 4,50m long for inland and PVC or fibre cement gutter down pipe for coastal area (price is on 100x75mm square)	1	EA		
673	Fit PVC down pipes 3.60m	1	EA		
WALLS EXTERIOR					
698	Do beam filling under corr iron, IBR or tile roof covering with stock bricks	9	M		

Respondent's signature: _____ Date: ____/____/____

TENDER NO: BLE/51826

ASSET NO: 02NAD02C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
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TOTAL PAGE 1 TO PAGE 3 R

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P + G

R

RISK AND SAFETY

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Respondent's signature: _____ Date: ____/____/____

ANNEXURE B
TENDER PRICE LIST PER ITEM

ASSET DESCRIPTION: Messroom

CITY / TOWN: Paardeneiland

TENDER NO: BLE/51826

ASSET NO: 02BAD19C

WORK DESCRIPTION: Replace asbestos roofsheets.

TENDER PRICE LIST TO INTERIOR AND EXTERIOR WORK TO BUILDINGS

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All material shall be fitted, install or applied as specified by the manufacture.

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SAFETY: The contractor shall comply with the Occupational Health Safety Act, 1993 (Act 85 of 1993).

Page 1 of 3	SUB TOTAL	PAGE 1	<div style="border: 1px solid black; width: 100px; height: 20px;"></div>
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TENDER NO: BLE/51826

ASSET NO: 02BAD19C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
ROOF					
581	Replace Asbestos ridging with ridging suitable for IBR roofing.	62	M	<div style="border: 1px solid black; width: 60px; height: 20px;"></div>	<div style="border: 1px solid black; width: 60px; height: 20px;"></div>
590	Supply new Sisalation Aluminuim foil roof insulation sheeting.	422	M^2	<div style="border: 1px solid black; width: 60px; height: 20px;"></div>	<div style="border: 1px solid black; width: 60px; height: 20px;"></div>
592	Fit 0.8mm thick IBR profile roof sheet to steel structure up to ??0m high, purline spacing, fitting as per attached specification and as per manufacture specification. (Chromodek from clotun steel) work done as per approved by safety plan	422	M^2	<div style="border: 1px solid black; width: 60px; height: 20px;"></div>	<div style="border: 1px solid black; width: 60px; height: 20px;"></div>

Respondent's signature: _____ **Date:** ____/____/____

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TENDER NO: BLE/51826

ASSET NO: 02BAD19C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
615	Apply TSW or approved product in concentrate form to asbestos sheets. To seal or paint roof. TSW can be applied via an airless spray gun or a low pressure backpack sprayer. Apply until the TSW product is no longer absorbed into sheets . See attached spec	422	M^2		
619	Remove asbestos roof sheets from roof in terms of the attached spec and asbestos regulations. Before removing sheets spray both sides with TSW. Scaffolding and ladders to remove sheets is included in item. Item exclude removal of the roof construction.	422	M^2		
620	Dispose of asbestos sheets. Pack all asbestos sheets in lockable container. Send asbestos sheets to approved asbestos waste site in terms of the Environmental management Act.(Act No.107 of 1998) and the Environmental Conservation Act(Act No 73. of 1989)	422	JOB		
635	Paint exposed roof timber purlin, paint 1 pink wood primer, 1 coat universal undercoat and 2 coats white Dulux roof guard paint. apply paint only after preparation as per attached specification	94	M^2		
636	Paint exposed 700mm 1 coat universal undercoat and 2 coats white Dulux wall guard or Dulux roof guard. bare wood areas shall be spot primed with wood primer. apply paint only after preparation as per attached specification.	104	EA		
FACIA/BARGE BOARDS					
649	Fit barge board, nutec-cement barge board. item includes h-profile joiners as necessary. do all work as per attached detailed specification	9	M		
651	Fit fascia board, nutec-cement type 225mm x 12mm thick. item include h-profile fascia joiners and h-profile fascia corner jointers. do all work as per attached specification	94	M		
653	Paint fascia board steel / nutec fibre cement, 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attached specification has been done	94	M^2		
654	Paint barge board steel / nutec-cement 2 coats Plascon wall and all paint or with Dulux white roof guard paint (paint only front side) apply paint only after preparation as per attached specification had been done	9	M^2		
GUTTERS/DOWNPINES					
660	Remove gutters complete with brackets, down pipes and down pipe holder bats, item include the fill of down pipe holder bat holes in wall with cement	94	M		
664	Fit PVC gutters at coastal area	94	M		
673	Fit PVC down pipes	6	EA		
WALLS EXTERIOR					
698	Do beam filling under corr iron, IBR or tile roof covering with stock bricks	90	M		

Respondent's signature: _____ Date: ____/____/____

TENDER NO: BLE/51826

ASSET NO: 02BAD19C

ITEM NO	FAULT DISCRPTION	ITEM TOTAL	MEASURE UNIT	UNIT RATE	ITEM AMOUNT
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TOTAL PAGE 1 TO PAGE 3 R

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P + G

R

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