

BID No: E13/2024/2025

DEPARTMENT OF EDUCATION

FREE STATE GOVERNMENT

SPECIFICATIONS AND QUANTITIES

INVITATION TO BID

1. The supply, delivery, and installation of the following relocatable and factory built mobile facilities:

- Single grade R Classroom
- Double grade R classroom
- Mobile Classroom
- Kitchen Unit
- Administration Block
- Female Toilet
- Male Toilet
- Staff Toilet
- Storeroom

2. Basic Services (i.e., connection of electricity, sewer, and water supply)

3. Relocation of existing relocatable mobile facilities

4. Relocation of existing collapsible/site erect mobile facilities

**AT VARIOUS SCHOOLS IN THE FREE STATE AS AND WHEN THE NEED ARISES
FOR A PERIOD OF THREE (3) YEARS FROM DATE OF APPOINTMENT**

SPECIFICATIONS COMPILED BY:

SURPRISE RANTSATSI

DEPARTMENT OF EDUCATION

TEL: 051 – 404 9292

DEPARTMENT OF EDUCATION

PHYSICAL RESOURCE PLANNING

N8 GATEWAY OFFICE PARK

RUDOLF GREYLING & AW LOUW AVE

ESTOIRE

BLOEMFONTEIN

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GENERAL INTRODUCTION

- 1. The service is a specialised service. The building installation must be complete in all aspects and ready for commissioning. Tenderers must ensure provision for all material and apparatus that may be necessary to complete the installation. The work must only be done by experts who can provide proof of previous installations successfully installed by them.**
- 2. Where commercial names and references to catalogues are mentioned in this section, it only determines the standard of the material and workmanship.**
- 3. Exact positions of all units and apparatus will be ascertained on site.**
- 4. All bidder/suppliers/tenderers are strongly advised to acquaint themselves thoroughly with the contents of the document as well as the type of buildings, materials and methods to be used.**
- 5. Combine the specifications with the attached detailed floor plans and site plan.**
- 6. Attach all details of type/make and specifications of the product offered if the variation is not similar to the departmental specifications.**
- 7. The bidder/tenderer must complete the attached questionnaires and submit it with the bid.**
- 8. Only competent workmen under constant competent supervision will be allowed on site.**
- 9. All shavings, cuttings and rubbish shall be cleaned out and be deposited away from site as they accumulate during the working process.**
- 10. All bidder/supplier/tenderer must make provision for water, electricity, toilet facilities etc, for the workforce, as none is available on site.**
- 11. No damages to buildings will be accepted during offloading and the site must be visited before any delivery takes place in order to determine correctness of placement.**

- 12. The successful tenderer will be fully responsible for security of equipment and all materials and buildings to be provided to complete the scope of work irrespective the area and conditions on site.**
- 13. The descriptions are given as a guide to the Contractor in order that he may identify the items on the site.**
- 14. Special care is to be exercised not to unnecessarily interfere with any electric light, power of telephone wires and notice is to be given to the Authorities concerned for any disconnection's that are necessary and the Contractor is to avoid every facility in connection herewith.**
- 15. The Contractor will be held solely responsible for any damage to persons or property and must make good at his own expense any damage that may occur.**
- 16. Where breaking through, out or into existing reinforces concrete work occurs, the Contractor is to work diligently and shall allow for necessary bracing, propping, strutting, etc. to prevent movement, cracking or distortion to the existing structure.**
- 17. All old material and rubble which accumulate from time to time, must be removed and the site must be left clear at completion.**
- 18. Where existing material are described as "Take out and hand over" or "Take out and set aside for re-use" such materials remain the property of the client and must be carefully removed, thoroughly cleaned and stored safely in good order on the site where directed.**
- 19. Where existing work is removed, broken into or altered, the Contractor must insure that no damage to the existing structure of fittings is incurred. Any such damaged incurred must be repaired or replaced to the Works Inspector's approval at the Contractor's expense.**
- 20. Materials from the demolitions described as "Demolish and Remove" or "Pull down and remove" become the property of the Contractor and he must remove these materials from the site at his own expense. The bricks, etc., removed from the demolitions may be used in the new work providing the Works Inspector approves.**

21. The Contractor is to carry out the work with as little disturbance as possible and comply with the instructions of the Works Inspector.
22. The Contractor is advised to take all measurements in connection with the existing building on the site, as he will be held solely responsible for the measurements of all the new work.

26. Provisional quantities

All items indicated as “Provisional” are provisionally measured and shall be re-measured upon execution and paid for at rates according to the provisional priced list of Quantities in the specification section or arranged beforehand to the extent executed only and any other unexpected amount shall be deducted from the account of the Contractor.

The Contractor is to notify the Departmental Representative to re-measure all provisional work before such work is covered up.

Where items are described as being measured “Provisional” the Contractor must liaise with the Project Manager before he places any order for these items and the Departmental Representative reserves the right to re-measure any or all items measured in these provisional priced list of Quantities in the specification section at completion of the works.

ITEM	DESCRIPTION
	<u>SECTION 1</u> <u>GENERAL NOTES</u> All bidder/suppliers/tenderers are strongly advised to acquaint themselves thoroughly with the contents of the document as well as the type of buildings, materials and methods to be used. Combine the specifications with the attached detailed floor plans and site plan. Attach all details of type/make and specifications of the product offered if the variation is not similar to the departmental specifications. <u>ALL PRICES MUST INCLUDE LABOR AND ESTABLISHMENT OF WORKFORCE DURING FINAL ASSEMBLY ON SITE</u> Contract period: 3 years Penalty for late completions is R500.00 per calendar day.

SPECIFICATIONS AND QUANTITIES

1 Single Grade R Mobile Classroom

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE GRADE R CLASSROOM BUILDING WITH VERANDAH.
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GRADE R SPECIFICATION:

Prefabricated mobile single Grade R classroom building and including refurbishment of interior with required equipment and furniture. Size 12m x 7m = $\pm 84\text{m}^2$ with verandah size: 12m x 1.5m at $\pm 18\text{m}^2$. The interior of the building will also be provided with a store area of $\pm 6\text{m}^2$ and ablution area of $\pm 6\text{m}^2$ and overall a standard ceiling height of no less than 2400mm. (Accordingly attached layout and specification. Overall sizes may vary with $\pm 200\text{mm}$ tolerance).

Construction:

The overall construction of the building must be designed and approved by a registered qualified engineer and must have an approved rust resistant finished chassis and a weather resistant flashing finish to all exposed external and internal surfaces. The floor chassis must be firmly covered with no less than 21mm thick water treated block board. All interior walls must be provided with timber/pvc skirting's, neatly and firmly attached to the interior walls, and painted with one coat sanding sealer and two coats eggshell varnish.

Wall construction:

The wall panel construction must consist out of profiled chromatic Chroma deck or equal approved finish wall panels with a minimum metal thickness of 0.42mm and adequate approved polyurethane or polystyrene insulation properties with Minimum density: 34 to 36 kg/m³ Minimum U-Value of 0.60 W/M² °Celsius. The total wall thickness to be no less than 40mm. internal walls in children toilets to be fully paneled.

Roof and ceiling construction:

An Engineer design and approved roof construction covered with 0.5mm thick full hard galvanized or equal approved roof covering with a roof overhang of no less than 300mm and including ridging of 450mm girth with roll top and bend down edges and shall be lapped 225 mm at all end joints and close beaten into corrugations of roof sheeting, with an approved insulated suspended type ceiling, finished off with a light pastel color finishing. Cranked roof sheeting will be accepted.

Chassis Jacks:

Provide 24 adequate adjustable screws in tri-pod type jacks and standard pre-cast concrete slabs 400 x 400 x 50mm thick with each unit.

Data sheet to be completed by the bidder in respect of class rooms/stores offered against this specification

Make:.....

Size:.....

Factory address:.....

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Can the officials of the
Department of Education
inspect the factory?

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Type of walls:.....

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Type of roof and ceiling
construction:.....

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FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE GRADE R CLASSROOM BUILDING WITH VERANDAH.
<u>GRADE R SPECIFICATION CONTINUOUS:</u>	
<u>Closure of building base external skirting:</u>	
It is essential that the base foundation of the building been closed to prevent the pre-school learners from entering the open space below the building.	
<u>DESCRIPTION: EXTERNAL SKIRTING DETAIL</u>	
Provide and fix external skirting (accordingly attached detail plan) formed of 0.5mm Chromadeck corrugated wide span sheeting fixed with a 50 x 40 x 15mm Lip Channel to the top of the chassis base and a 20 x 40 x 20mm Top Hat at an 50 x 50 x 3mm angle iron corner frame structure. Allow for 50mm gap above NGL. Size of external skirting ±500mm high (depending on the gap after erection) and in total surrounding the building completely.	
Chassis	
Chassis constructed from 300 x 75 x 20 x 3 mm lip channel welded together that supports a steel floor grid constructed from 75 x 50 x 2 mm lip channel. This superior chassis design allows for easy handling, transport, and crane installations.	
Floor covering:	
Floor for classroom must be covered with 2mm thick, heavy-duty industrial welded floor sheeting or 300 x 300mm x 2.5mm thick vinyl sheeting and toilets and store areas must be covered completely with the same and including metal strips at door openings and carpet ending accordingly manufacturer's instructions.	
Windows: Fitted to provide <u>adequate lighting levels (according to building regulations)</u> with window area to be no less than 15% of the floor area with 50% of the windows as opening sections, provided with suitable sills, glazed with 3mm clear glass according to standard building regulations and sealed with an approved sealer during construction. Anodized aluminum frame sections and cottage pane type windows will also be expectable. All the opening sections must be provided with burglar bars. Bottom of window sections were pinning boards are installed should be at a height of ±1455mm from floor level	
Surveillance windows:	
Both the store and toilet walls both sides on the inside of the classroom must each be provided with a 900 x 900mm glass panel framework filled with clear safety glass 1100mm above the floor level for surveillance purposes. (Total 2)	
	Type of floor covering:..... Type of chassis..... Type of floor covering:..... Type of windows and sizes:

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FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE GRADE R CLASSROOM BUILDING WITH VERANDAH.
<u>GRADE R SPECIFICATION CONTINUOUS:</u> Doors and Frames (External): Door frames are to be rebated of suitable standard size fitted and sealed neatly into wall panels. Doors to be chromadek finished matching wall panels and hung on 2 x 100mm door hinges and fitted with at least a three-lever mortice lockset (SABS Approved) and cabin hooks for keeping door in the open position. Doors must open to the inside. (Total 1) Doors and Frames continuous (Internal): Ditto: For internal doors excluding for cabin hooks and one door in toilet center for educators use. (Each 2) Steel steps to exterior entrance doors: Provide adequate nonslip steps at the entrance door as required manufactured of checker plate. To be painted with one coat red oxide and two coats enamel paint. Internal Toilet Doors: Flush panel doors for two learners toilets with the size that must be cut 100mm above floor surface and 1500mm high in total and must be equipped with ball type locks and including suitable handles both sides at a height of 900mm from floor level. (Each 2)	Type of doors:..... Type of doors:..... Type of Step:..... Type of doors:

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE GRADE R CLASSROOM BUILDING WITH VERANDAH.
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GRADE R SPECIFICATION CONTINUOUS:

Veranda:

The front of the building must be provided with a 1500mm wide roof overhang veranda supported with at least 7 of 75 x 75mm diameter steel columns with an “approved” roofing support steel framework firmly secured to the building. Each column must be firmly secured to a concrete slab of 300mm x 300mm x 500mm below the soil surface. The roof covering must be similar to the main building. The steel structure must be painted with one coat red oxide and two coats approved enamel paint. All finishes must be smooth. The floor surface to be left unfinished except for minor leveling.

Security gates:

All entrance doors to be fitted with a purpose made steel security gate accordingly the departmental specification (see attached detail plan) with an approved locking mechanism. Pre-manufactured jack type slam lock security gates will also be excepted if it is manufactured accordingly the SABS standards. (Each 1)

Burglar Bars on windows:

Window sections to be fitted with burglar bars manufactured of 25mm x 6mm thick flat bars spaced at 150mm intervals at all opening sections and painted with one coat red oxide and two coats enamel paint.

Does your offer comply with the specification?

[illegible]

Does the construction comply with standard building regulations:

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Does your offer comply with the specification:

[illegible]

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE GRADE R CLASSROOM BUILDING WITH VERANDAH.
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GRADE R SPECIFICATION CONTINUOUS:

INTERNAL GRADE R FITTINGS:

Pinning board:

Provide and fit the classroom with four approved notice boards each with a minimum size of 2400mm long and 1200mm high, with two fixed to the side wall room below window sections specified at a height of 1455mm below window sills and two at the same height at the back of the classroom. Manufactured of 16mm soft board covered with color rib carpeting and framed with aluminum U-shape 19mm x 19mm fixed properly to walls. (Each 2)

Writing Board:

Provide and fit each classroom with one approved white board with permanent rail with a minimum size of 1200mm long and 1500mm high, fixed to the back wall at a standard height. (Each 2)

Pigeonholes:

Manufacture and install pigeonhole units 4464mm long with holes 350 x 350 x 300mm deep (24 holes in total and at sequence of 12 x 2) for both classrooms, manufactured from 22mm thick laminated saligna with bottom base 75mm from floor. With one coat sanding sealer and two coats eggshell varnish. Installed according to the detail plan.

(Holes in total 32)

Shelving:

Manufacture and install two shelving units 1000mm long x 1500mm high with four shelves 300mm deep with bottom base 75mm from floor for classrooms and two units 1500mm long x 1500mm high with four shelves 300mm deep with bottom base 75mm from floor in store area. Manufactured from 22mm thick laminated saligna. With one coat sanding sealer and two coats eggshell varnish. Installed according to detail plan. (Total 2)

Does your offer comply with the specification:

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Does your offer comply with the specification:

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Does your offer comply with the specification:

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FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE GRADE R CLASSROOM BUILDING WITH VERANDAH.
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SPECIFICATION CONTINUOUS:

GRADE R TOILETS FITTINGS

W.C. Pans & cisterns for pre-school Learners both on the sides of the educator's toilet:

Mini type W.C. pans complete with seat and flap, pan connector, pan collar, flush rubbers and Lucifer clamps etc. fixing into position, confirmed to floor making all connections to cisterns and drainage to the outside of the building. (Adequate height and fitted $\pm$ 700mm from wall to front. (Color White) (Making use of Vaal Magnolia Ceramic or similar approved type.) (Total 2)

Cisterns seven liter low level complete with wall brackets, ball valve, flushing mechanism, copper connector and ball stop, flush pipe, connectors etc. fixing into position making all connections to water supply and W.C.Pans to the outside of the building. (Color White Vaal magnolia ceramic) adequate height and suitable for requested W.C. pan and suitable for pre-school learners.

NOTE: Flush control arm or rod must be chromium plated brass or steel. (Total 2)

Hand wash basins:

Hand wash basins complete with wall brackets and stand, 15mm chromium plated pillar taps, copper connectors and ball stop, rubber P-trap and clamps, waste fittings etc. fixing into position making all connections to water supply and drainage to the outside of the building. (Size 570 x 395mm) (Color White) (Making use of Vaal Magnolia Ceramic or similar approved type).

Note: Basin to be fitted to adequate height for pre-school learners. Stainless steel basins will be accepted. (Total 1)

If not comply please indicate deviation:

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FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE SINGLE GRADE R CLASSROOM BUILDING WITH VERANDAH.
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SPECIFICATION CONTINUOUS:

ELECTRICAL:

The building must be fully wired according to the Standard Building Regulations and fitted with a distribution board and connection point for the exterior electrical feed. The outside of the building to be provided with a loop in 4 way (PRATLEY) box for permanent outside connection.

The following electrical switchgear in new classroom building fully wired.

1.2m double electronic start telescopic fluorescent fitting
complete with tubes. (Each 6)

Outside wall 2pl-18 watt round bulk head light fit. (Each 1)

220v x 16amp single lever one way switch. (Each 3)

60amp x 5ka double pole circuit breaker mains. (Each 1)

20amp x 5ka double pole circuit breaker . (Each 2)

10amp x 3ka single pole circuit breaker lights. (Each 1)

63amp x 3ka single pole earth leakage relay. (Each 1)

10 way distribution board surface mounted. (Each 1)

220v photo cell for exterior light. (Each 1)

Pratley 4 way loop in box mounted back to back with
distribution board for electrical connection. (Each 1)

18000BTU Window Wall Air Conditioner (Each 2)

Indicate whether any conduit will be done surface or on inside of the wall paneling.

Does the electrical system
comply with the
specification.....

Electrical deviations:

FREE STATE DEPARTMENT OF EDUCATION

LUMP SUM PRICE SCHEDULE

JOB DESCRIPTION	SUPPLY AND INSTALL MODULAR MOBILE SINGLE GRADE R CLASSROOM WITH VERANDAH
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No	Description	Unit	QTY	Rate Year 1	Rate Year 2	Rate Year 3
1.	Supply and install prefabricated double wide Single GRADE R mobile classroom building with verandah complete as per specification and detail plans. Place in position on standard pre-cast concrete slabs and jacks. Size 12m x 7m at $\pm 84\text{m}^2$ with verandah size: 12m x 1.5m at $\pm 18\text{m}^2$ The interior of the building will also be provided with a store area of $\pm 6\text{m}^2$ and TOILET area of $\pm 6\text{m}^2$ and overall a standard ceiling height of no less than 2400mm for <u>pre-school learners</u> at: SINGLE GRADE R T (14%) ONLY IF VAT REGISTER TOTAL CARRIED FORWARD TO FINAL SUMMARY	Each	1	R	R	R
				R.....	R.....	R.....

1 Double Grade R Mobile Classroom

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE DOUBLE GRADE R CLASSROOM BUILDINGS WITH VERANDAH.
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GRADE R SPECIFICATION:

NOTE THE FOLLOWING:

- Prefabricated mobile double wide Grade R classrooms must be detachable in maximum two to three sections.
- Provision must be made for “minor leveling and clearing” of the area for erection purposes “if needed”. (No heavy-duty equipment will be necessary) The site levels may vary with $\pm 200\text{mm}$ in some instances. However, the buildings must be erected 100% level with the adjustable jacks and or slabs. Provision to be made for additional slabs where needed.
- The successful tenderer will be responsible for the removal and cleaning of all excess materials used and to leave the site in a perfectly clean and neat condition.

Comments:.....

[illegible]

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE DOUBLE GRADE R CLASSROOM BUILDING WITH VERANDAH.
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GRADE R SPECIFICATION:

Prefabricated mobile double Grade R classroom building and including refurbishment of interior with required equipment and furniture. Size 18m x 7m = $\pm 126\text{m}^2$ with verandah size: 18m x 1.5m at $\pm 27\text{m}^2$. The interior of the building will also be provided with a store area of size 3m x 3m = $\pm 9\text{m}^2$ and ablution area of size 4m x 3m = $\pm 12\text{m}^2$ and overall a standard ceiling height of no less than 2400mm. (Accordingly attached layout and specification. Overall sizes may vary with $\pm 200\text{mm}$ tolerance).

Construction:

The overall construction of the building must be designed and approved by a registered qualified engineer and must have an approved rust resistant finished chassis and a weather resistant flashing finish to all exposed external and internal surfaces. The floor chassis must be firmly covered with no less than 21mm thick water treated block board. All interior walls must be provided with timber skirting's, neatly and firmly attached to the interior walls, and painted with one coat sanding sealer and two coats eggshell varnish.

Wall construction:

The wall panel construction must consist out of profiled chromatic Chroma deck or equal approved finish wall panels with a minimum metal thickness of 0.58mm and adequate approved polyurethane or polystyrene insulation properties with Minimum density: 34 to 36 kg/m³ Minimum U-Value of 0.60 W/M² °Celsius. The total wall thickness to be no less than 40mm. internal walls in children toilets to be fully paneled.

Roof and ceiling construction:

An Engineer design and approved roof construction covered with 0.5mm thick full hard galvanized or equal approved roof covering with a roof overhang of no less than 300mm and including ridging of 450mm girth with roll top and bend down edges and shall be lapped 225 mm at all end joints and close beaten into corrugations of roof sheeting, with an approved insulated suspended type ceiling, finished off with a light pastel color finishing. Cranked roof sheeting will be accepted.

Chassis Jacks:

Provide 24 adequate adjustable screws in tri-pod type jacks and standard pre-cast concrete slabs 300 x 300 x 50mm thick with each unit.

Data sheet to be completed by the bidder in respect of class rooms/stores offered against this specification

Make:.....

Size:.....

Factory address:.....

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Can the officials of the
Department of Education
inspect the factory?

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Type of walls:.....

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Type of roof and ceiling
construction:.....

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FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE DOUBLE GRADE R CLASSROOM BUILDING WITH VERANDAH.
<u>GRADE R SPECIFICATION CONTINUOUS:</u> <u>Closure of building base external skirting:</u> It is essential that the base foundation of the building been closed to prevent the pre-school learners from entering the open space below the building. <u>DESCRIPTION: EXTERNAL SKIRTING DETAIL</u> Provide and fix external skirting (accordingly attached detail plan) formed of 0.5mm Chromadeck corrugated wide span sheeting fixed with a 50 x 40 x 15mm Lip Channel to the top of the chassis base and a 20 x 40 x 20mm Top Hat at an 50 x 50 x 3mm angle iron corner frame structure. Allow for 50mm gap above NGL. Size of external skirting ±500mm high (depending on the gap after erection) and in total surrounding the building completely. Chassis Chassis constructed from 300 x 75 x 20 x 3 mm lip channel welded together that supports a steel floor grid constructed from 75 x 50 x 2 mm lip channel. This superior chassis design allows for easy handling, transport, and crane installations. Floor covering: Floor for classroom must be covered partially (42m²) with new Oxide heavy duty block carpet tiles with an approved adhesive from wall to wall and including metal strips at door openings and carpet ending and joining floor sheeting accordingly manufacturers' instructions. Floor for classroom must be covered partially (61.6m²) with 2mm thick, heavy-duty industrial welded floor sheeting or 300 x 300mm x 2.5mm thick vinyl tiles and toilets and store areas must be covered completely with the same and including metal strips at door openings and carpet ending accordingly manufacturer's instructions. Windows: Fitted to provide <u>adequate lighting levels (according to building regulations)</u> with window area to be no less than 15% of the floor area with 50% of the windows as opening sections, provided with suitable sills, glazed with 3mm clear glass according to standard building regulations and sealed with an approved sealer during construction. Anodized aluminum frame sections and cottage pane type windows will also be expectable. All the opening sections must be provided with burglar bars. Bottom of window sections were pinning boards are installed should be at a height of ±1455mm from floor level Surveillance windows: Both the store and toilet walls both sides on the inside of the classroom must each be provided with a 900 x 900mm glass panel framework filled with clear safety glass 1100mm above the floor level for surveillance purposes. (Total 4)	Type of floor covering:..... Does the electrical system comply with the specification..... Type of floor covering Type of windows and sizes:

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

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DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE DOUBLE GRADE R CLASSROOM BUILDING WITH VERANDAH.
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GRADE R SPECIFICATION CONTINUOUS:

Veranda:

The front of the building must be provided with a 1500mm wide roof overhang veranda supported with at least 7 of 75 x 75mm diameter steel columns with an “approved” roofing support steel framework firmly secured to the building. Each column must be firmly secured to a concrete slab of 300mm x 300mm x 500mm below the soil surface. The roof covering must be similar to the main building. The steel structure must be painted with one coat red oxide and two coats approved enamel paint. All finishes must be smooth. The floor surface to be left unfinished except for minor leveling.

Security gates:

All entrance doors to be fitted with a purpose made steel security gate accordingly the departmental specification (see attached detail plan) with an approved locking mechanism. Pre-manufactured jack type slam lock security gates will also be excepted if it is manufactured accordingly the SABS standards. (Each 2)

Burglar Bars on windows:

Window sections to be fitted with burglar bars manufactured of 25mm x 6mm thick flat bars spaced at 150mm intervals at all opening sections and painted with one coat red oxide and two coats enamel paint.

Does your offer comply with the specification?

[illegible]

Does the construction comply with standard building regulations:

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Does your offer comply with the specification:

(This area contains dotted lines for writing.)

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE DOUBLE GRADE R CLASSROOM BUILDING WITH VERANDAH.
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GRADE R SPECIFICATION CONTINUOUS:

INTERNAL GRADE R FITTINGS:

Pinning board:

Provide and fit the classroom with four approved notice boards each with a minimum size of 2400mm long and 1200mm high, with two fixed to the side wall room below window sections specified at a height of 1455mm below window sills and two at the same height at the back of the classroom. Manufactured of 16mm soft board covered with color rib carpeting and framed with aluminum U-shape 19mm x 19mm fixed properly to walls. (Each 4)

Writing boards:

Provide and fit each classroom with one approved white boards with permanent rail with a minimum size of 1200mm long and 1500mm high, fixed to the back wall at a standard height. (Each 2)

Pigeon Holes:

Manufacture and install pigeonhole units 4464mm long with holes 350 x 350 x 300mm deep (24 holes in total and at sequence of 12 x 2) for both classrooms, manufactured from 22mm thick laminated saligna with bottom base 75mm from floor. With one coat sanding sealer and two coats eggshell varnish. Installed according to the detail plan.

(Holes in total 48)

Shelving:

Manufacture and install two shelving units 2000mm long x 1500mm high with four shelves 300mm deep with bottom base 75mm from floor for classrooms and two units 1500mm long x 1500mm high with four shelves 300mm deep with bottom base 75mm from floor in store area. Manufactured from 22mm thick laminated saligna. With one coat sanding sealer and two coats eggshell varnish. Installed according to detail plan. (Total 4)

Does your offer comply with the specification:

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Does your offer comply with the specification:

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Does your offer comply with the specification:.....

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Does your offer comply with the specification:

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FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE DOUBLE GRADE R CLASSROOM BUILDING WITH VERANDAH.
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SPECIFICATION CONTINUOUS:

GRADE R TOILETS FITTINGS:

The interior of the toilets must be fully refurbished, and all services must be finalized up to the exterior of the walls and or floors for final connection by another service provider outside this contract. (Water and sewerage) All junior WC pans, toilet cisterns and basins must be approved ceramic fixtures. WC pans must be accompanied with pan collars on to the outside of the building and the wall must be finished of neatly on the outside. PVC must be used for drainage. Water pipes Class 12 High Density polyethylene must be no less than 20mm and no copper pipes will be allowed (for vandalism purposes). All connectors at basins and cisterns however must be copper and no flexi connectors will be allowed.

Note: All surface pipe work must be confirmed properly to walls with aluminum saddling at 800mm intervals.

W.C. Pan & cistern for Educator in center of toilet area:

W.C. Pan complete with seat and flap, pan connector, pan collar, flush rubbers and Lucifer clamps etc. fixing into position, confirmed to floor making all connections to cisterns and drainage to the outside of the building. (Height 400mm, Outlet 190mm from floor to center, size 450 x 350mm and fitted ± 700mm from wall to front. (Color White) (Making use of Vaal Magnolia Ceramic or similar approved type.)

(Total 1)

Cistern nine liter low level complete with wall brackets, ball valve, flushing mechanism, copper connector and ball stop, flush pipe, connectors etc. fixing into position making all connections to water supply and W.C. Pans to the outside of the building. (Color White Vaal magnolia ceramic) (Size ± 420mm wide. Fitted at a height of ± 900mm)

NOTE: Flush control arm or rod must be chromium plated brass or steel.

(Total 1)

Does your offer comply with the specification:.....

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Does your offer comply with the specification:

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FREE STATE DEPARTMENT OF EDUCATION
DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE DOUBLE GRADE R CLASSROOM BUILDING WITH VERANDAH.
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SPECIFICATION CONTINUOUS:

GRADE R TOILETS FITTINGS:

Each toilet building to be provided with the following:

Towel rail 400mm long on the side walls. (Each 2)

Stainless steel type Mirror 400 x 400mm. (Each 2)

Approved toilet roll holders. (Each 3)

Door plates indicating Toilets (Each 2)

Door plate indicating Educator Toilet (Each 1)

Door plate indicating Male Toilet (Each 1)

Door plate indicating Female Toilet
(Each 1)

Zink Cabinet:

Provide and install standard single bowl stainless steel 1000 x 420mm complete with steel cupboard with one shelf and include 40mm waste fitting, 40mm p-trap, 2 x 15mm bib taps connected to the interior other interior services. (Hot water to be connected to 25 liter Twin Pack Geyser and must be fitted on top of zinc cupboard). (Each 2)

Geyser:

Provide and install in both Zink cabinets a 10 Liter Prisma under basin Twin Pack Geyser with 15mm inlet, T&P valve overflow, pressure control valve overflow 15mm (rooted to the outside of building), 15mm vacuum breakers & PC valve & TP Valve. Be of copper inner cylinder, 2.4kw element and type VKF7 thermostat. Similar to Kwikot.

To be fitted on the inside of both Zink cabinets against the wall and connected to hot water bib tap and electrical services. Cold water supply feed must be connected from the water line from the toilets. (Each 2)

If not comply please indicate deviation:

[illegible]

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE DOUBLE GRADE R CLASSROOM BUILDING WITH VERANDAH.
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SPECIFICATION CONTINUOUS:

ELECTRICAL:

The building must be fully wired according to the Standard Building Regulations and fitted with a distribution board and connection point for the exterior electrical feed. The outside of the building to be provided with a loop in 4 way (PRATLEY) box for permanent outside connection.

The following electrical switchgear in new classroom building fully wired.

1.5m double electronic start telescopic fluorescent fitting complete with tubes.	(Each 13)
Outside wall 2pl-18 watt round bulk head light fit.	(Each 2)
220v x 16amp single lever one way switch.	(Each 4)
60amp x 5ka double pole circuit breaker mains.	(Each 1)
20amp x 5ka double pole circuit breaker .	(Each 2)
10amp x 3ka single pole circuit breaker lights.	(Each 2)
63amp x 3ka single pole earth leakage relay.	(Each 1)
10 way distribution board surface mounted.	(Each 1)
220v photo cell for exterior light.	(Each 1)
Pratley 4 way loop in box mounted back to back with distribution board for electrical connection.	(Each 1)
18000BTU Window Wall Air Conditioner	(Each 4)

Indicate whether any conduit will be done surface or on inside of the wall paneling.

Does the electrical system
comply with the
specification.....

Electrical deviations:

FREE STATE DEPARTMENT OF EDUCATION

LUMP SUM PRICE SCHEDULE

JOB DESCRIPTION	SUPPLY AND INSTALL MODULAR MOBILE DOUBLE GRADE R CLASSROOM
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No	Description	Unit	QTY	Rate Year 1	Rate Year 2	Rate Year 3
1.	Supply and install prefabricated double wide GRADE R mobile classroom building with verandah complete as per specification and detail plans. Place in position on standard pre-cast concrete slabs and jacks. Size 18m x 7m at $\pm 126\text{m}^2$ with verandah size: 18m x 1.5m at $\pm 27\text{m}^2$ The interior of the building will also be provided with a store area of size 3m x 3m = $\pm 9\text{m}^2$ and TOILET area of size 4m x 3m = $\pm 12\text{m}^2$ and overall a standard ceiling height of no less than 2400mm for <u>pre-school learners</u> at: GRADE R T (14%) <u>ONLY IF VAT REGISTER</u> TOTAL CARRIED FORWARD TO FINAL SUMMARY	Each	1	R	R	R
				R.....	R.....	R.....

1 Modular Kitchen Unit

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE KITCHEN UNIT WITH VERANDAH.
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KITCHEN UNIT SPECIFICATION:

Prefabricated mobile kitchen unit with a minimum floor area of $\pm 48.3\text{m}^2$ per kitchen $\pm 7\text{m} \times 7\text{m}$ with verandah size: $7\text{m} \times 1.8\text{m}$ at $\pm 12.42\text{m}^2$. The interior of the building must also be provided with a storeroom of Size $3.45\text{m} \times 2.28\text{m} = \pm 7.86\text{m}^2$ and overall a standard ceiling height of no less than 2700mm. (Accordingly attached layout and specification. Overall sizes may vary with $\pm 200\text{mm}$ tolerance).

Construction:

The overall construction of the building must be designed and approved by a registered qualified engineer and must have an approved rust resistant finished chassis and a weather resistant flashing finish to all exposed external and internal surfaces. The floor chassis must be firmly covered with no less than 21mm thick water treated block board. All interior walls must be provided with timber skirting's, neatly and firmly attached to the interior walls and painted with one coat sanding sealer and two coats eggshell varnish.

Wall construction:

The wall panel construction must consist out of a chromatic or equal approved finish on the outside and either wood grain or chromatic finish on the inside and adequate approved insulation properties equivalent to a 225mm brick wall and fire resistant. Minimum density: 34 to 36 kg/m^3 Minimum U-Value of 0.60 $\text{W/M}^2\text{ }^\circ\text{Celsius}$. Air bricks must be provided at the store each 1 and above the gas stove each 2.

Roof and ceiling construction: (Flat roof construction for Kitchens)

An Engineer design and approved roof construction covered with 0.5mm thick full hard galvanized or equal approved roof covering with a roof overhang of no less than 300mm and including ridging of 450mm girth with roll top and bend down edges and shall be lapped 225 mm at all end joints and close beaten into corrugations of roof sheeting, with an approved insulated suspended type ceiling, finished off with a light pastel color finishing. Cranked roof sheeting will be accepted.

Chassis:

Chassis constructed from 175 x 50 x 20 x 3 mm lip channel welded together that supports a steel floor grid constructed from 75 x 50 x 2 mm lip channel. This superior chassis design allows for easy handling, transport, and crane installations.

Data sheet to be completed by the bidder in respect of class rooms/stores offered against this specification

Make:

Size:

Factory address:.....

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Can the officials of the Department of Education inspect the factory?

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Type of walls:

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Type of roof and ceiling construction

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Does your offer comply with the specification:

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FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE KITCHEN UNIT WITH VERANDAH.
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KITCHEN UNIT SPECIFICATION:

Floor covering:

Floor construction to comply with the requirements of SANS 10400 as well as SANS 204.

Floors to be constructed out of 19mm thick shutter board or similarly approved material, on an engineered designed galvanized steel structure. The underside of the floorboards must be treated with two coats of carbolineum, or equally approved product.

Floors to be finished with semi flexible vinyl floor tiles size 300 x 300x 2.5mm thick laid with an adhesive to pattern and two coats approved sealer to applied prior to handover.

Skirting to be 19 x 69mm hardwood screwed to framework and finished with three coats polyurethane suede varnish all-around.

Windows:

Windows fitted to provide adequate lighting levels (according to building regulations) with window area to be no less than 15% of the floor area with 50% of the windows as opening sections, provided with suitable sills, glazed with 3mm clear glass according to standard building regulations and sealed with an approved sealer during construction. Anodized aluminum frame sections and cottage pane type windows will also be expectable. All the opening sections must be provided with burglar bars.

Doors and Frames (External and Internal):

Door frames are to be rebated of suitable standard size fitted and sealed neatly into wall panels. Doors to be chromadek finished matching wall panels and hung on 2 x 100mm door hinges and fitted with at least a three lever mortice lockset (SABS Approved) and cabin hooks for keeping door in the open position. Doors must open to the inside. Both doors must also be equipped with 400mm X 400mm aluminum door ventilation lovers back to back bolted with stainless steel bolts including washers and lock nuts. The ventilation lovers must be 150mm from the bottom of the door.

Steel steps to entrance doors:

Provide adequate nonslip standard steel ramp & landing structure at the entrance door as required. Walking surfaces to be manufactured of non-slip checker plate. Paint with one coat red oxide and two coats enamel paint.

Type of floor covering:

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Type of windows and sizes:

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Type of doors and step offered:

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FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE KITCHEN UNIT WITH VERANDAH.
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KITCHEN UNIT SPECIFICATION CONTINUOUS:

Veranda:

The front of the building must be provided with an 1800mm wide roof overhang veranda supported with at least 6 of 75 x 75mm diameter steel columns with an “approved” roofing support steel framework firmly secured to the building. Each column must be firmly secured to a concrete slab of 300mm x 300mm x 500mm below the soil surface. The roof covering must be similar to the main building. The steel structure must be painted with one coat red oxide and two coats approved enamel paint. All finishes must be smooth. The floor surface to be left unfinished except for minor leveling.

Security gates:

All entrance doors to be fitted with a purpose made steel security gate accordingly the departmental specification (see attached detail plan) with an approved locking mechanism. Pre-manufactured jack type slam lock security gates will also be excepted if it is manufactured accordingly the SABS standards.

Burglar Bars:

Window sections to be fitted with burglar bars manufactured of 25mm x 6mm thick flat bars spaced at 150mm intervals at all opening sections and painted with one coat red oxide and two coats enamel paint.

Platform steel structure with rail:

(In order to serve learners on the outside of the roller shutter door.)
Manufacture a purpose made approved platform steel structure 1500mm long x 900mm wide with steps both sides and a hand rail on the one side. The platform level must be 200mm higher than the floor level of the building interior and placed against the building in front of the serving entrance. Walking surfaces to be manufactured of non-slip checker plate. Minimum size of ±1500mm × 900mm and including adequate steel steps both sides. To be painted with one coat red oxide and two coats enamel paint.

Does your offer comply with the specification:

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Does your offer comply with the specification:

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Does your offer comply with the specification:.....

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FREE STATE DEPARTMENT OF EDUCATION
DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE KITCHEN UNIT WITH VERANDAH.
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KITCHEN UNIT SPECIFICATION CONTINUOUS:

KITCHEN UNIT (FURNITURE):

Kitchen store room:

The store room must be equipped with fully modular and adjustable storage shelves. The shelves and frames offer must four shelves manufactured of mild steel chrome plated and coated with lacquer finish size (W: D: H:) 905 x 455 x 1830mm or other approved type. The mentioned product is the minimum requirements and any other product can be offered, as long as the quality and performances are equal or better than the product mentioned and approved by the departmental representative. Detail information must accompanies by technical data of the product offered must be supplied.

(Each 2)

Stainless Steel Sink:

Provide and install standard single bowl (single pot) stainless steel sink (W: D: H) 900 x 650 x 900mm complete with a 150mm splash back along the rear. Unit to be accompanied with mild steel under frame c/w Ø42mm stainless steel legs and adjustable feet permanently fixed against the wall and the floor.

The sink must be suitable to accommodate tone 60l cooking pot. The sink unit must be fully equipped with two water taps and drainage trap and outlet piping only up to the outside of the unit for water supply and drainage. The water connection must be according to SANS 1315:2002, 15mm Polypropylene pressure pipe complete with 15mm shut of valve and complete with 40mm PVC drainage and P/S trap piping making connection points for water supply and drainage available on the outside of the building below the chassis.

(Each 1)

Does your offer comply with the specification:.....

[illegible]

Does your offer comply with the specification:

[illegible]

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION

STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE KITCHEN UNIT WITH VERANDAH.

KITCHEN UNIT SPECIFICATION CONTINUOUS:

GAS INSTALLATION AND EQUIPMENT:

Gas cylinder shelter continuous:

Regulator:

- A new regulator must be installed after the manifold pipeline inside the new gas cylinder shelter to reduce the gas pressure effectively to 2.77kPa (T.G. 0,735 KPa). A "REGO 2302" regulator or another type approved by the Department.
- A release valve, for releasing the pressure should it exceeds 10 KPa, must forming an integral part of the regulator. The material of the regulator must be free of any porosity and manufactured according to the basis of safety, durability and workmanship.
- All metal parts of any fitting must be manufactured of anti-corrosive material or be treated accordingly.

SHUT-OFF VALVES

- The shut-off valves (two off) must be installed in the positions which will be indicated by the Consultant.
- A 20 mm diameter shut-off valve must be installed in a position behind the boiling table as shown.
- A 20mm diameter shut-off valve must be installed in the main gas pipeline next to the enclosure in a safe position which will be ascertained on site by the Consultant.
- These valves shall be of the ball type, suitable for use with Liquid Petroleum gas.

(Each 2)

Does your offer comply with the specification:.....

Does your offer comply with the specification:.....

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE KITCHEN UNIT WITH VERANDAH.
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KITCHEN UNIT SPECIFICATION CONTINUOUS:

ELECTRICAL:

The building must be fully wired according to the Standard Building Regulations and fitted with a distribution board and connection point for the exterior electrical feed. The outside of the building to be provided with a loop in 4 way (PRATLEY) box for permanent outside connection.

The following electrical switchgear in new building fully wired.

1.5m double electronic start telescopic fluorescent fitting complete with tubes.	(Each 6)
Outside wall 2pl-18 watt round bulk head light fit.	(Each 2)
220v x 16amp single lever one way switch.	(Each 4)
60amp x 5ka double pole circuit breaker mains.	(Each 1)
20amp x 5ka double pole circuit breaker	(Each 2)
10amp x 3ka single pole circuit breaker lights.	(Each 2)
63amp x 3ka single pole earth leakage relay.	(Each 1)
10 way distribution board surface mounted.	(Each 1)
220v photo cell for exterior light.	(Each 1)
Pratley 4 way loop in box mounted back to back with	
Distribution board for electrical connection.	(Each 1)
Indicate whether any conduit will be done surface or on inside of the wall paneling.	

Does the electrical system comply with the specification.....

Electrical deviations:

FREE STATE DEPARTMENT OF EDUCATION

LUMP SUM PRICE SCHEDULE

JOB DESCRIPTION	SUPPLY AND INSTALL PREFABRICATED MODULAR MOBILE KITCHEN
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No	Description	Unit	QTY	Rate Year 1	Rate Year 2	Rate Year 3
1.	Supply and install prefabricated modular mobile kitchen building fully and including kitchen furniture and gas equipment with verandah for sizes complete as per specification and detail plans. Place in position on standard pre-cast concrete slabs and jacks.					
	MOBILE KITCHEN UNIT	Each	1	R	R	R
	TOTAL CARRIED FORWARD TO FINAL SUMMARY			R.....	R.....	R.....

1 Mobile Classrooms

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE CLASSROOMS.
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MOBILE CLASSROOM SPECIFICATION CONTINUOUS::

Wall construction:

The wall panel construction must consist out of a chromatic or equal approved finish on the outside and either wood grain or chromatic finish on the inside and adequate approved insulation properties equivalent to a 225mm brick wall and fire resistant. Minimum density: 34 to 36 kg/m³ Minimum U-Value of 0.60 W/M² °Celsius.

Roof and ceiling construction:

An Engineer approved roof construction covered with 0.5mm thick galvanized or equal approved roof covering with an insulated suspended type ceiling, finished off with a light pastel color finishing.

Veranda:

The front of the building must be equipped with a 1500mm wide roof overhang veranda supported with at least 7 x 75mm diameter poles with an “approved” roofing support steel framework.

Steel windows:

Galvanized steel windows fitted with brass furniture and to provide adequate lighting levels as well as ventilation to the interior of the classroom, glazed with clear glass according to standard building regulations. Aluminum will be allowed.

Chassis:

Chassis constructed from 175 x 50 x 20 x 3 mm lip channel welded together that supports a steel floor grid constructed from 75 x 50 x 2 mm lip channel. This superior chassis design allows for easy handling, transport, and crane installations.

Type of walls:.....

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Type of roof and ceiling: ...

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Does your offer comply with the specification:.....

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Type of window:

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FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MODULAR MOBILE CLASSROOMS.
<u>MOBILE CLASSROOM SPECIFICATION CONTINUOUS::</u> <u>MOBILE CLASSROOM FITTINGS:</u> White board: Provide and fit each classroom with approved white board / rail with a minimum size of 1200mm long and 1500mm high, fixed to the front wall at a standard height. (Each 2) Notice board: Provide and fit each classroom with an approved notice board with a minimum size of 2400mm long and 1200mm high, fixed to the back wall of the classroom at a standard height. (Each 2) <u>ELECTRICAL:</u> The unit must be fully wired according to the Standard Building Regulations and fitted with a distribution board and connection point for the exterior electrical feed. On side of each building must have a loop in box 4 way (PRATLEY). <u>The following electrical switchgear in new classroom building fully wired.</u> 1.5m double fluorescent fitting complete with 2 fluorescent tubes. (Each 4) 220v photocell for exterior lights (Each 1) 6 way distribution board. (Each 1) 220v z 20amp socket outlet. (Each 2) 220v x 16amp 1 lever one way switch. (Each 1) 40amp x 5ka single pole circuit breaker mains. (Each 1) 63amp x 3ka single pole earth leak relay. (Each 1) 20amp x 3ka single pole circuit breaker plugs (Each 1) 10amp x 3ka single pole circuit breaker lights. (Each 1) Outside wall 2pl-18 watt round bulkhead light fit. (Each 2) 18000BTU window wall air conditioner (Each 2) Indicate whether any conduit will be done surface or on inside of the wall paneling. The loop in box will be mounted back-to-back with the D.B.	Type of whiteboard: Type of notice boards: Does the electrical system comply with the specification: Electrical deviations:

FREE STATE DEPARTMENT OF EDUCATION

LUMP SUM PRICE SCHEDULE

JOB DESCRIPTION	SUPPLY AND INSTALL MOBILE CLASSROOMS
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No	Description	Unit	QTY	Rate Year 1	Rate Year 2	Rate Year 3
1.	Delivery: Supply and install mobile classrooms as per specification. Place in position on and included standard pre-cast concrete slabs and jacks and leave in perfect condition to the satisfaction of the Departmental Representative / Agent CLASSROOM	Each	1	R	R	R
	TOTAL CARRIED FORWARD TO FINAL SUMMARY			R.....	R.....	R.....

1 Modular Mobile Administration

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED ADMINISTRATION BLOCK.
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MOBILE ADMINISTRATION BLOCK SPECIFICATION CONTINUOUS:

Wall construction:

The wall panel construction must consist out of a chromatic or equal approved finish on the outside and either wood grain or chromatic finish on the inside and adequate approved insulation properties equivalent to a 225mm brick wall and fire resistant. Minimum density: 34 to 36 kg/m³ Minimum U-Value of 0.60 W/M² °Celsius.

Roof and ceiling construction:

An Engineer approved roof construction covered with 0.5mm thick galvanized or equal approved roof covering with a roof overhang of no less than 450mm with an insulated suspended type ceiling, finished off with a light pastel color finishing.

Veranda:

The front of the building must be equipped with a 1500mm wide roof overhang veranda supported with at least 7 x 75mm diameter poles with an “approved” roofing support steel framework.

Steel windows:

Galvanized steel windows fitted with brass furniture and to provide adequate lighting levels as well as ventilation to the interior of the offices, glazed with clear glass according to standard building regulations. Aluminum will be allowed

Chassis:

Chassis constructed from 300 x 75 x 20 x 3 mm lip channel welded together that supports a steel floor grid constructed from 75 x 50 x 2 mm lip channel. This superior chassis design allows for easy handling, transport, and crane installations.

Type of walls.....

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Type of roof and ceiling:

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Does your offer comply with the specification:.....

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Type of windows:.....

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Does your offer comply with the specification:.....

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FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED ADMINISTRATION BLOCK.
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MOBILE ADMINISTRATION BLOCK SPECIFICATION CONTINUOUS:

Floor covering:

Floor construction to comply with the requirements of SANS 10400 as well as SANS 204.

Floors to be constructed out of 19mm thick shutter board or similarly approved material, on an engineered designed galvanized steel structure. The underside of the floorboards must be treated with two coats of carbolineum, or equally approved product.

Floors to be finished with semi flexible vinyl floor tiles size 300 x 300x 2.5mm thick laid with an adhesive to pattern and two coats approved sealer to applied prior to handover.

Skirting to be 19 x 69mm hardwood screwed to framework and finished with three coats polyurethane suede varnish all-around.

Doors:

Standard hardwood or equal approved doors must be provided to each unit and fitted with at least a three lever lockset (SABS Approved) and cabin hooks for keeping door in the open position. Doors must open to the inside.

Writing board:

Provide and fix white magnetic laminated board with aluminum frame and pen trace complete with wall brackets as from continental enameling. In the staff room and principals office. Size 1200 x 1500mm.

Notice board:

Provide and fit with an approved notice board with a minimum size of 2400mm long and 1200mm high, fixed at a standard height. The entrance area, staff room, principal, vice principal secretary and admin office.

Type of covering:

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Type of notice board:.....

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If not comply please indicate variation:.....

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Type of writing board:.....

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Type of notice board:

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DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED ADMINISTRATION BLOCK.
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MOBILE ADMINISTRATION BLOCK SPECIFICATION
CONTINUOUS:

TOILETS FITTINGS:

The interior of the toilets must be fully refurbished and all services must be finalized up to the exterior of the walls and or floors for final connection by another service provider outside this contract. (Water and sewerage) All W.C. pans, toilet cisterns, basins and urinals must be approved ceramic fixtures. W.C. pans must be accompanied with pan collars on to the outside of the building and the wall must be finished of neatly on the outside. PVC must be used for drainage. Class 12 High Density polyethylene water pipe must be no less than 15mm and no copper pipes will be allowed (for vandalism purposes). All connectors at basins and cisterns however must be copper and no flexi connectors will be allowed.

Hand wash basins complete with wall brackets and stand, 15mm chromium plated push type pillar taps, copper connectors and ball stop, rubber P-trap and clamps, waste fittings etc. fixing into position making all connections to water supply and drainage. (Size 570 x 395mm)(Color White)(Making use of Vaal Magnolia Ceramic or similar approved type). Total 2.

W.C. Pans complete with seat and flap, pan connector, flush rubbers and Lucifer clamps etc. Fixing into position, concreted to floor making all connections to cisterns and drainage. (Height 400mm, Outlet 190mm from floor to center, size 450 x 350mm and fitted $\pm$ 700mm from wall to front. (Color White) (Making use of Vaal Magnolia Ceramic or similar approved type.)

(Total 3)

If not comply please indicate
variation:.....

If not comply please indicate
variation:.....

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED ADMINISTRATION BLOCK.
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MOBILE ADMINISTRATION BLOCK SPECIFICATION CONTINUOUS:

TOILETS FITTINGS:

Cisterns nine liter low level complete with wall brackets, ball valve, flushing mechanism, copper connector and ball stop, flush pipe, connectors etc. fixing into position making all connections to water supply and W.C. Pan. (Color White Vaal magnolia ceramic) (Size $\pm$ 420mm wide. Fitted at a height of $\pm$ 900mm)

NOTE: Flush control arm or rod must be chromium plated brass or steel. (Total 3)

Urinals complete with wall brackets and stand, 15mm chromium plated push type flush valve, connectors and ball stop, bottle traps and clamps, waste fittings etc. fixing into position making all connections to water supply and drainage. (Color White)(Making use of Vaal Magnolia Ceramic or similar approved type). (Total 1)

Each bathroom with the following:

- One towel rail 800mm long.
- One mirror 400 x 400mm.
- Three toilet roll holders.

If not comply please indicate variation:.....

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If not comply please indicate variation:.....

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FREE STATE DEPARTMENT OF EDUCATION

LUMP SUM PRICE SCHEDULE

JOB DESCRIPTION	SUPPLY AND INSTALL MOBILE ADMINISTRATION					
	Description	Unit	QTY	Rate Year 1	Rate Year 2	Rate Year 3
1.	Supply and install mobile administration building as per specification. Place in position on and included standard pre-cast concrete slabs and jacks and leave in perfect condition to the satisfaction of the Departmental Representative / Agent ADMINISTRATION BLOCK TOTAL CARRIED FORWARD TO FINAL SUMMARY	Each	1	R	R	R
				R.....	R.....	R.....

1 Modular Mobile Administration

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED ADMINISTRATION BLOCK.
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MOBILE ADMINISTRATION BLOCK SPECIFICATION CONTINUOUS:

Wall construction:

The wall panel construction must consist out of a chromatic or equal approved finish on the outside and either wood grain or chromatic finish on the inside and adequate approved insulation properties equivalent to a 225mm brick wall and fire resistant. Minimum density: 34 to 36 kg/m³ Minimum U-Value of 0.60 W/M² °Celsius.

Roof and ceiling construction:

An Engineer approved roof construction covered with 0.5mm thick galvanized or equal approved roof covering with a roof overhang of no less than 450mm with an insulated suspended type ceiling, finished off with a light pastel color finishing.

Veranda:

The front of the building must be equipped with a 1500mm wide roof overhang veranda supported with at least 7 x 75mm diameter poles with an “approved” roofing support steel framework.

Steel windows:

Galvanized steel windows fitted with brass furniture and to provide adequate lighting levels as well as ventilation to the interior of the offices, glazed with clear glass according to standard building regulations. Aluminum will be allowed

Included: Vertical blinds all windows including the reception room sliding window.

NB!! No blinds for the toilets

Chassis:

Chassis constructed from 300 x 75 x 20 x 3 mm lip channel welded together that supports a steel floor grid constructed from 75 x 50 x 2 mm lip channel. This superior chassis design allows for easy handling, transport, and crane installations.

Type of walls.....

.....

Type of roof and ceiling:..

.....

Does your offer comply with the specification:.....

.....

Type of windows:.....

.....

Does your offer comply with the specification:....

.....

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED ADMINISTRATION BLOCK.
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MOBILE ADMINISTRATION BLOCK SPECIFICATION CONTINUOUS:

Floor covering:

Floor construction to comply with the requirements of SANS 10400 as well as SANS 204.

Floors to be constructed out of 19mm thick shutter board or similarly approved material, on an engineered designed galvanized steel structure. The underside of the floorboards must be treated with two coats of carbolineum, or equally approved product.

Floors to be finished with semi flexible vinyl floor tiles size 300 x 300x 2.5mm thick laid with an adhesive to pattern and two coats approved sealer to applied prior to handover.

Skirting to be 19 x 69mm hardwood screwed to framework and finished with three coats polyurethane suede varnish all-around.

Doors:

Standard hardwood or equal approved doors must be provided to each unit and fitted with at least a three-lever lockset (SABS Approved) and cabin hooks for keeping door in the open position. Doors must open to the inside.

Writing board:

Provide and fix white magnetic laminated board with aluminum frame and pen trace complete with wall brackets as from continental enameling. In the staff room, reception, vice principal office and principals office. Size 1200 x 1500mm. (Each 4)

Notice board:

Provide and fit with an approved notice board with a minimum size of 2400mm long and 1200mm high, fixed at a standard height. In the staff room, reception, vice principal office and principals office. Size 1200 x 1500mm. (Each 4)

Type of covering:

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Type of doors :

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Type of writing board:

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Type of notice board

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DETAILED SPECIFICATION

DETAILED SPECIFICATION

[illegible]

FREE STATE DEPARTMENT OF EDUCATION

LUMP SUM PRICE SCHEDULE

JOB DESCRIPTION	SUPPLY AND INSTALL MOBILE ADMINISTRATION					
	Description	Unit	QTY	Rate Year 1	Rate Year 2	Rate Year 3
1.	Supply and install mobile administration building as per specification. Place in position on and included standard pre-cast concrete slabs and jacks and leave in perfect condition to the satisfaction of the Departmental Representative / Agent ADMINISTRATION BLOCK TOTAL CARRIED FORWARD TO FINAL SUMMARY	Each	1	R	R	R
				R.....	R.....	R.....

1 Leaners modular mobile toilet facilities

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MALE AND FEMALE MODULAR MOBILE TOILET
-------------	--

FEMALE MOBILE TOILET SPECIFICATION CONTINUOUS:

Construction:

The construction must be designed and approved by a registered qualified engineer and must have an approved rust resistant finished chassis and a weather resistant finish to all exposed external and internal surfaces. The floor chassis must be covered with no less than 21mm thick water treated block board. Adequate steps and landing with a minimum size of 1000 × 1000mm must be provided on the outside of the entrance door.

Adequate adjustable jacks and pre-cast concrete slabs must be provided with each unit.

Wall construction:

The wall panel construction must consist out of a chromatic or equal approved finish on the outside and either wood grain or chromatic finish on the inside and adequate approved insulation properties equivalent to a 225mm brick wall and fire resistant. Minimum density: 34 to 36 kg/m³ Minimum U-Value of 0.60 W/M² °Celsius.

Roof and ceiling construction:

An Engineer approved roof construction covered with 0.5mm thick galvanized or equal approved roof covering with a roof overhang of no less than 450mm with an insulated suspended type ceiling, finished off with a light pastel color finishing.

Veranda:

The front of the building must be equipped with a 1500mm wide roof overhang veranda supported with at least 3 to 7 x 75mm diameter poles (depending on the door position) with an “approved” roofing support steel framework.

Steel windows:

Galvanized steel windows fitted with brass furniture and to provide adequate lighting levels as well as ventilation to the interior of the offices, glazed with clear glass according to standard building regulations. Aluminum will be allowed.

Data sheet to be completed by the bidder in respect of administration building offered against this specification

Make:.....

Size:.....

Factory address:.....

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Can the officials of the Department of Education inspect the factory:

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Type of walls:.....

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Type of roof and ceiling:.....

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Type of windows:.....

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FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MALE AND FEMALE MODULAR MOBILE TOILET
-------------	--

FEMALE MOBILE TOILET SPECIFICATION CONTINUOUS:

Chassis:

Chassis constructed from 175 x 50 x 20 x 3 mm lip channel welded together that supports a steel floor grid constructed from 75 x 50 x 2 mm lip channel. This superior chassis design allows for easy handling, transport, and crane installations.

Floor covering:

Floor construction to comply with the requirements of SANS 10400 as well as SANS 204.

Floors to be constructed out of 19mm thick shutter board or similarly approved material, on an engineered designed galvanized steel structure. The underside of the floorboards must be treated with two coats of carbolineum, or equally approved product.

Floors to be finished with semi flexible vinyl floor tiles size 300 x 300x 2.5mm thick laid with an adhesive to pattern and two coats approved sealer to applied prior to handover.

Doors:

Standard hardwood or equal approved doors must be provided to each unit and fitted with at least a three-lever lockset (SABS Approved) and cabin hooks for keeping door in the open position. Doors must open to the inside.

Does the electrical system
comply with the
specification:.....

Type of covering:.....

Type of doors

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MALE AND FEMALE MODULAR MOBILE TOILET
<u>FEMALE MOBILE TOILET SPECIFICATION CONTINUOUS:</u> The Mobile ablution block for males and females with a minimum floor area of 27m² each. The standard ceiling height may not be less than 2600mm. (Accordingly attached layout. Overall sizes may vary with ±200mm tolerance). Construction: The construction must be designed and approved by a registered qualified engineer and must have an approved rust resistant finished chassis and a weather resistant finish to all exposed external and internal surfaces. The floor chassis must be covered with no less than 21mm thick water treated block board. Adequate steps and landing with a minimum size of 1000 × 1000mm must be provided on the outside of the entrance door. Adequate adjustable jacks and pre-cast concrete slabs must be provided with each unit. Wall construction: The wall panel construction must consist out of a chromatic or equal approved finish on the outside and either wood grain or chromatic finish on the inside and adequate approved insulation properties equivalent to a 225mm brick wall and fire resistant. Minimum density: 34 to 36 kg/m³ Minimum U-Value of 0.60 W/M² °Celsius. Roof and ceiling construction: An Engineer approved roof construction covered with 0.5mm thick galvanized or equal approved roof covering with a roof overhang of no less than 450mm with an insulated suspended type ceiling, finished off with a light pastel color finishing. Veranda: The front of the building must be equipped with a 1500mm wide roof overhang veranda supported with at least 30 to 7 x 75mm diameter poles (depending on the door position) with an “approved” roofing support steel framework. Steel windows: Galvanized steel windows fitted with brass furniture and to provide adequate lighting levels as well as ventilation to the interior of the offices, glazed with clear glass according to standard building regulations. Aluminum will be allowed.	Data sheet to be completed by the bidder in respect of administration building offered against this specification Make:..... Size:..... Factory address:..... Can the officials of the Department of Education inspect the factory: Type of roof and ceiling: Does the electrical system comply with the specification Type of windows:

FREE STATE DEPARTMENT OF EDUCATION
DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MALE AND FEMALE MODULAR MOBILE TOILET
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FEMALE MOBILE TOILET SPECIFICATION CONTINUOUS:

Chassis: Constructed from 175 x 50 x 20 x 3 mm lip channel welded together that supports a steel floor grid constructed from 75 x 50 x 2 mm lip channel. This superior chassis design allows for easy handling, transport, and crane installations.

Floor covering:

Floor construction must be covered with 2mm thick, heavy-duty industrial welded floor sheeting.

Doors:

Standard hardwood or equal approved doors must be provided to each unit and fitted with at least a three lever lockset (SABS Approved) and cabin hooks for keeping door in the open position. Doors must open to the inside.

TOILETS: The interior of the toilets must be fully refurbished, and all services must be finalized up to the exterior of the walls and or floors for final connection by another service provider outside this contract. (Water and sewerage) All W.C. pans, toilet cisterns, basins and urinals must be approved ceramic fixtures. W.C. pans must be accompanied with pan collars on to the outside of the building and the wall must be finished of neatly on the outside. PVC must be used for drainage. Class 12 High Density polyethylene water pipe must be no less than 15mm and no copper pipes will be allowed (for vandalism purposes). All connectors at basins and cisterns however must be copper and no flexi connectors will be allowed.

Hand wash basins complete with wall brackets and stand

15mm chromium plated push type pillar taps, copper connectors and ball stop, rubber P-trap and clamps, waste fittings etc. fixing into position making all connections to water supply and drainage. (Size 570 x 395mm)(Color White)(Making use of Vaal Magnolia Ceramic or similar approved type).
(Total 4)

W.C. Pans complete with seat and flap, pan connector, flush rubbers and Lucifer clamps etc. fixing into position, concreted to floor making all connections to cisterns and drainage. (Height 400mm, Outlet 190mm from floor to center, size 450 x 350mm and fitted $\pm$ 700mm from wall to front. (Color White) (Making use of Vaal Magnolia Ceramic or similar approved type.) (Total 7

Cisterns nine-liter low level complete with wall brackets, ball valve, flushing mechanism, copper connector and ball stop, flush pipe, connectors etc. fixing into position making all connections to water supply and W.C. Pan. (Color White Vaal magnolia ceramic) (Size $\pm$ 420mm wide. Fitted at a height of $\pm$ 900mm)

NOTE: Flush control arm or rod must be chromium plated brass or steel.

(Total 7)

Type of covering:.....

[illegible]

Type of doors

.....

.....

.....

Does the offer comply with the specification:.....

[illegible]

FREE STATE DEPARTMENT OF EDUCATION

LUMP SUM PRICE SCHEDULE

JOB DESCRIPTION	SUPPLY, AND INSTALL MOBILE TOILET BUILDING (FOR MALES)
----------------------------	---

No	Description	Unit	QTY	Rate Year 1	Rate Year 2	Rate Year 3
1.	Supply, and install mobile TOILET building (for FEMALES) as per specification. Place in position on and included standard pre-cast concrete slabs and jacks and leave in perfect condition to the satisfaction of the Departmental Representative / Agent					
	MOBILE TOILET BUILDING (FEMALES)	Each	1	R	R	R
	TOTAL CARRIED FORWARD TO FINAL SUMMARY			R.....	R.....	R.....

FREE STATE DEPARTMENT OF EDUCATION
LUMP SUM PRICE SCHEDULE

JOB DESCRIPTION	SUPPLY AND INSTALL MOBILE TOILET BUILDING (FOR FEMALES)
----------------------------	--

No	Description	Unit	QTY	Rate Year 1	Rate Year 2	Rate Year 3
1.	Supply and install mobile TOILET building (for MALES) as per specification. Place in position on and included standard pre-cast concrete slabs and jacks and leave in perfect condition to the satisfaction of the Departmental Representative / Agent.					
	MOBILE TOILET BUILDING (MALES)	Each	1	R	R	R
	TOTAL CARRIED FORWARD TO FINAL SUMMARY			R.....	R.....	R.....

1 Staff Modular Mobile Toilet

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED STAFF MODULAR MOBILE TOILET
<u>STAFF MOBILE TOILET SPECIFICATION CONTINUOUS:</u> The Mobile Staff Toilet block for males and females with a minimum floor area of 18m² each. The standard ceiling height may not be less than 2600mm. (Accordingly attached layout. Overall sizes may vary with ±200mm tolerance). Construction: The construction must be designed and approved by a registered qualified engineer and must have an approved rust resistant finished chassis and a weather resistant finish to all exposed external and internal surfaces. The floor chassis must be covered with no less than 21mm thick water treated block board. Adequate steps and landing with a minimum size of 1000 × 1000mm must be provided on the outside of the entrance door. Adequate adjustable jacks and pre-cast concrete slabs must be provided with each unit. Wall construction: The wall panel construction must consist out of a chromatic or equal approved finish on the outside and either wood grain or chromatic finish on the inside and adequate approved insulation properties equivalent to a 225mm brick wall and fire resistant. Minimum density: 34 to 36 kg/m³ Minimum U-Value of 0.60 W/M² °Celsius. Roof and ceiling construction: An Engineer approved roof construction covered with 0.5mm thick galvanized or equal approved roof covering with a roof overhang of no less than 450mm with an insulated suspended type ceiling, finished off with a light pastel color finishing. Veranda: The front of the building must be equipped with a 1500mm wide roof overhang veranda supported with at least 3 to 4 x 75mm diameter poles (depending on the door position) with an “approved” roofing support steel framework. Steel windows: Galvanized steel windows fitted with brass furniture and to provide adequate lighting levels as well as ventilation to the interior of the offices, glazed with clear glass according to standard building regulations. Aluminum will be allowed.	Data sheet to be completed by the bidder in respect of administration building offered against this specification Make:..... Size:..... Factory address:..... Can the officials of the Department of Education inspect the factory: Type of roof and ceiling: Does the electrical system comply with the specification Type of windows:

FREE STATE DEPARTMENT OF EDUCATION

LUMP SUM PRICE SCHEDULE

JOB DESCRIPTION	SUPPLY, AND INSTALL STAFF MOBILE TOILET BUILDING
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No	Description	Unit	QTY	Rate Year 1	Rate Year 2	Rate Year 3
1.	Supply, and install mobile TOILET building (for STAFF) as per specification. Place in position on and included standard pre-cast concrete slabs and jacks and leave in perfect condition to the satisfaction of the Departmental Representative / Agent					
	MOBILE TOILET BUILDING (STAFF)	Each	1	R	R	R
	TOTAL CARRIED FORWARD TO FINAL SUMMARY			R.....	R.....	R.....

1 Modular Mobile Store Facilities

FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MOBILE STORAGE FACILITIES
-------------	--

MOBILE STORAGE FACILITIES SPECIFICATION **CONTINUOUS:**

Construction:

The construction must be designed and approved by a registered qualified engineer and must have an approved rust resistant finished chassis and a weather resistant finish to all exposed external and internal surfaces. The floor chassis must be covered with no less than 21mm thick water treated block board.

Adequate steps and landing with a minimum size of 1000 × 1000mm must be provided on the outside of the entrance door.

Adequate adjustable jacks and pre-cast concrete slabs must be provided with each unit.

Wall construction:

The wall panel construction must consist out of a chromatic or equal approved finish on the outside and either wood grain or chromatic finish on the inside and adequate approved insulation properties equivalent to a 225mm brick wall and fire resistant. Minimum density: 34 to 36 kg/m³ Minimum U-Value of 0.60 W/M² °Celsius.

Roof and ceiling construction:

An Engineer approved roof construction covered with 0.5mm thick galvanized or equal approved roof covering with an insulated suspended type ceiling, finished off with a light pastel color finishing.

Veranda:

The front of the building must be equipped with a 1500mm wide roof overhang veranda supported with at least 7 x 75mm diameter poles with an “approved” roofing support steel framework.

Steel windows:

Galvanized steel windows fitted with brass furniture and to provide adequate lighting levels as well as ventilation to the interior of the classroom, glazed with clear glass according to standard building regulations. Aluminum will be allowed.

Data sheet to be completed by the bidder in respect of class rooms/stores offered against this specification

Make:.....

Size:.....

Factory address:.....

.....

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Can the officials of the Department of Education inspect the factory?

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Type of walls:.....

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Type of roof and ceiling:.....

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Type of construction:

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Type of windows:.....

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FREE STATE DEPARTMENT OF EDUCATION

DETAILED SPECIFICATION

DESCRIPTION	STANDARD SPECIFICATION FOR PREFABRICATED MOBILE STORAGE FACILITIES
<u>MOBILE STORAGE FACILITIES SPECIFICATION CONTINUOUS</u> <u>Chassis:</u> Chassis constructed from 175 x 50 x 20 x 3 mm lip channel welded together that supports a steel floor grid constructed from 75 x 50 x 2 mm lip channel. This superior chassis design allows for easy handling, transport, and crane installations. <u>Floor covering:</u> Floor construction to comply with the requirements of SANS 10400 as well as SANS 204. Floors to be constructed out of 19mm thick shutter board or similarly approved material, on an engineered designed galvanized steel structure. The underside of the floorboards must be treated with two coats of carbolineum, or equally approved product. Floors to be finished with semi flexible vinyl floor tiles size 300 x 300x 2.5mm thick laid with an adhesive to pattern and two coats approved sealer to applied prior to handover. 5 TIER WOODEN SHELF <u>Shelving:</u> Manufacture and install shelving units 2000mm long x 1500mm high with four shelves 300mm deep with bottom base 75mm from floor for classrooms and two units 1500mm long x 1500mm high with four shelves 300mm deep with bottom base 75mm from floor in store area. Manufactured from 22mm thick laminated saligna. With one coat sanding sealer and two coats eggshell varnish. Installed according to detail plan. <u>Doors:</u> Standard hardwood or equal approved doors must be provided to each unit and fitted with at least a three-lever lockset (SABS Approved) and cabin hooks for keeping door in the open position. Doors must open to the inside.	Does offer comply with specification;..... Type of covering:..... Type of shelf / finishing: Type of doors:

FREE STATE DEPARTMENT OF EDUCATION

LUMP SUM PRICE SCHEDULE

JOB DESCRIPTION	SUPPLY AND INSTALLATION OF MOBILE STORE
----------------------------	--

No	Description	Unit	QTY	Rate Year 1	Rate Year 2	Rate Year 3
1.	Supply and installation of mobile store building as per specification. Place in position on and included standard pre-cast concrete slabs and jacks and leave in perfect condition to the satisfaction of the Departmental Representative / Agent.					
	MOBILE STORE BUILDING	Each	1	R	R	R
	TOTAL CARRIED FORWARD TO FINAL SUMMARY			R.....	R.....	R.....

FINAL SUMMARY

PRICING SCHEDULE

SECTION A

ITEM NO	DESCRIPTION	UNIT	QTY	FIXED PRICE YEAR1	FIXED PRICE YEAR2	FIXED PRICE YEAR3
1.	SUPPLY OF NEW RELOCATABLE UNITS					
1.1.	Supply of relocatable Single Grade R classroom	No.	1			
1.2.	Supply of relocatable Double Grade R classroom	No.	1			
1.3.	Supply of relocatable Classroom	No.	1			
1.4.	Supply of relocatable Kitchen	No.	1			
1.5.	Supply of relocatable Admin Block	No.	1			
1.6.	Supply of relocatable Female Toilet	No.	1			
1.7.	Supply of relocatable Male Toilet	No.	1			
1.8.	Supply of relocatable Staff Toilet	No.	1			
1.9.	Supply of relocatable Storage	No.	1			
1.10.	Site preparation	Sum	1			
1.11.	Transport cost per kilometer	Km	1			
1.12.	Supply new 3 tier step, landing and ramp	No.	1			
1.13.	Electricity connection and COC (10m)	Sum	1			
1.14.	Water connection (10m)	Sum	1			
1.15.	Electrical Kiosk (3 Phase IP65 – 10 classrooms board max)	Sum	1			
1.16.	Sewer connection (10m)	Sum	1			
1.17.	Excavate trench 600mm wide up to 1.0m depth and backfill after laying the cable (rate to exclude cable)	Linear meter	1			
1.17.1.	Supply, lay 4 core armored cable of the following sizes from connection point to the relocatable unit:		1			
1.17.2.	10mm ²	Linear meter	1			
1.17.3.	16mm ²	Linear meter	1			
1.17.4.	25mm'	Linear meter	1			
1.17.5.	35 mm ²	Linear meter	1			
1.18.	Supply and install distribution box (DB) unit	No.	1			
1.19.	Excavate trench 600mm wide up to 1.0m depth, supply, lay and backfill 25mm diameter HDPE Class 12 water pipe from connection point to the relocatable unit.	Linear meter	1			
1.20.	Excavate trench 600mm wide up to 1.0m depth, supply, lay and backfill 110mm diameter uPVC sewer pipe from connection point to the relocatable unit.	Linear meter	1			
	SUB-TOTAL (A)					
	VAT					
	TOTAL (A) (Relocatable units/Factory Built)					

SECTION B

TEM NO	DESCRIPTION	UNIT	QTY	FIXED PRICE YEAR1	FIXED PRICE YEAR2	FIXED PRICE YEAR3
2.	RELOCATION EXISTING RELOCATABLE MOBILE FACILITIES & TRANSPORT (Rates only)					
2.1.	Dismantle relocatable Single Grade R classroom	No.	1			
2.2.	Dismantle relocatable Double Grade R classroom	No.	1			
2.3.	Dismantle relocatable Classroom	No.	1			
2.4.	Dismantle relocatable Kitchen	No.	1			
2.5.	Dismantle relocatable Admin Block	No.	1			
2.6.	Dismantle relocatable Storage	No.	1			
2.7.	Disconnect electrical connection	Sum	1			
2.8.	Disconnect water connection	Sum	1			
2.9.	Disconnect sewer connection	Sum	1			
2.10.	Transport cost per kilometer	Km	1			
3	Re-assemble					
3.1.	Re-assemble relocatable Single Grade R classroom	No.	1			
3.2.	Re-assemble relocatable Double Grade R classroom	No.	1			
3.3.	Re-assemble relocatable Classroom	No.	1			
3.4.	Re-assemble relocatable Kitchen	No.	1			
3.5.	Re-assemble relocatable Admin block	No.	1			
3.6.	Re-assemble relocatable Storage	No.	1			
	SUB-TOTAL (B)					
	VAT					
	TOTAL (B) (Relocatable units/Factory Built)					

SECTION C

TEM NO	DESCRIPTION	UNIT	QTY	FIXED PRICE YEAR1	FIXED PRICE YEAR2	FIXED PRICE YEAR3
4.	RELOCATION COLLAPSIBLE/SITE ERECT & TRANSPORT (Rates only)					
4.1.	Dismantle collapsible/site erect Single Grade R classroom	No.	1			
4.2.	Dismantle collapsible/site erect Double Grade R classroom	No.	1			
4.3.	Dismantle collapsible/site erect Classroom	No.	1			
4.4.	Dismantle collapsible/site erect Kitchen	No.	1			
4.5.	Dismantle collapsible/site erect Admin Block	No.	1			
4.6.	Dismantle collapsible/site erect Storage	No.	1			
4.7.	Disconnect electrical connection	Sum	1			
4.8.	Disconnect water connection	Sum	1			
4.9.	Disconnect sewer connection	Sum	1			
4.10.	Transport cost per kilometer	Km	1			
5	Re-assemble					
5.1.	Re-assemble collapsible/site erect Single Grade R classroom	No.	1			
5.2.	Re-assemble collapsible/site erect Double Grade R classroom	No.	1			
5.3.	Re-assemble collapsible/site erect Classroom	No.	1			
5.4.	Re-assemble collapsible/site erect Kitchen	No.	1			
5.5.	Re-assemble collapsible/site erect Admin block	No.	1			
5.6.	Re-assemble collapsible/site erect Storage	No.	1			
6	Provisional Sums					
	Provisional sums for sundries per collapsible relocation	No.	1			
	SUB-TOTAL (C)					
	VAT					
	TOTAL (C)					
	TOTAL BID PRICE (A+B+C)					

PRICING CLARIFICATION

TECHNICAL DETAIL AND INFORMATION

TECHNICAL DETAIL AND INFORMATION

TABLE OF CONTENTS

1. INTRODUCTION
2. QUALITY SPECIFICATION
3. TECHNICAL DETAIL AND INFORMATION

- End of Table of Contents

1. INTRODUCTION

1.1 INTERPRETATION

The contractor must acquaint himself with the full content of each paragraph in the particular document and the details on the drawing(s). Furthermore, he must make sure that his interpretation of the specification and drawing(s) is correct and that the Tender price allows for each and every item which is necessary to complete the section in its entirety.

1. This specification covers the general requirements regarding material, equipment and installations.
2. This specification shall be read in conjunction with the rest of this document.
3. The technical, construction and performance requirements contained in this specification must be regarded as being of minimum required standards and therefore full compliance is a necessity.
4. Full compliance with these requirements does not release the Contractor from his contractual undertaking: to provide an installation that complies in all aspects with the operational requirements specified.
5. The onus is on the tenderer to determine any other local conditions that could possibly influence the operation of the equipment and the final price of the tender.
6. Safe working procedures must be followed and carried out at all times.

1.2 CONTRACT DURATION PERIOD

- a Circuit breaker
Commissioning and testing of the full installation

1.3 CONTRACT DURATION PERIOD

The duration period for the electrical installation for this project to be completed main contract

- End of Introduction -

2. QUALITY SPECIFICATION

2.1 GENERAL

This Quality Specification defines the Generals of materials and equipment, installation work and ancillary work to be employed in the electrical installation contract or sub-contract. The Project Specification defines the extent of work required.

2.2 GENERAL SPECIFICATIONS, REGULATIONS AND CODES

The complete electrical installation shall be carried out in full compliance with the Code of Practice for the Wiring of Premises, latest SANS 10142 (as amended), and with any Regulations or Codes of Practice in force or adopted in the area in which the contract is to be carried out. Tenderers shall familiarize themselves with all such Regulations or Codes before finalizing their prices. No price variations to the contract based on lack of knowledge of such Regulations or Codes will be allowed.

All materials and apparatus shall conform to the relevant SABS Specifications or British General Specifications (if such exist) and interchangeability of similar apparatus is required.

2.3 FINAL INSPECTION

Before the contractor is to hand over the building, the electrical installation shall be completed and the contractor shall accompany the Engineer or its representative on a full inspection of all sections of the contract. During this inspection all defects in the installation shall be recorded, and a copy of the list will be handed to the Contractor. On the day upon which the contractor conducts his own handing-over inspections of the building, the Engineer or its representative will carry out a final inspection and all the defects listed in the previous inspection should, at that date, have been completely rectified. Should it be necessary for the Engineer or its representative to carry out any further inspections, due to the contractor not having properly remedied the defects, the costs of such additional inspections shall be for the account of the Contractor.

3. TECHNICAL DETAIL AND INFORMATION

Regulations 4 (1) to 6 (3) of Government Notice R2920 of October promulgated under Section 35 of the Occupational and Safety Act No 85 of 1993.

3.1 CONSTRUCTION MECHANICAL

All installations and South African made apparatus offered, must comply with the latest relevant SABS specifications.

DETAILED INFORMATION OF APPARATUS OFFERED.

1. Technical data of all apparatus offered in the different Parts mentioned, must be submitted writing to the Super-visor (Mechanical) in Bloemfontein for his approval before ordering from Suppliers.
2. Machines or equipment used as demonstration models or models that are already withdrawn from the market will not be accepted.
3. A complete set of manual/operating instruction booklets and spare parts list must be supplied for each type of installation/apparatus (where applicable) specified in this mechanical document. These booklets must be neatly filed in sturdy hard cover plastic files and handed over to the Departmental Consultant/Mechanical Works Inspector in charge of the project in writing on a date that will be determined by a site meeting /site instruction.
4. The operating of all the apparatus where applicable must be demonstrated to the staff and Supervisor. The Contractor must be convinced himself that the staff members of a particular section who will use the apparatus, are familiar how to operate the apparatus with ease and in an economically way.

3.2 PAINT WORK

- 3.2.1 All apparatus and fittings where applicable that are to be installed by the Contractor shall be painted for protection against corrosion with colours being approved by the Consultant. Colour coding will be in accordance with the latest SABS specifications 0140 PART 1V. For further information see PART 1, clause 3.
- 3.2.2 All unpainted metal surfaces, excluding galvanized sur-faces, shall be cleaned thoroughly by removing all welding scale, mill scale, mist, oil, grease, etc. The appropriate amount of an undercoating, as prescribed by the suppliers for the various surfaces, must be applied. The final coat of all surfaces must match the colours as specified by the Consultant Architect on site.

- 3.2.3** All apparatus and fittings that are to be installed by the Contractor shall be painted for protection against corrosion with colours being approved by the Supervisor in co-operation with the Consultant Architect. Colour coding will be in accordance with the latest SABS Specifications 0140, PART IV.

The following SABS codes must be followed.

SABS - 064	PREPARATION OF STEEL SURFACES FOR PAINTING
SABS -0140	IDENTIFICATION COLOUR CODING(ALL PARTS)
SABS - 630	HIGH GLOSS ENAMEL ART PAINT
SABS - 631	OIL GLOSS PAINT FOR IN AND OUT SIDE SURFACES
SABS - 678	BASED PAINT FOR WOOD (INSIDE AND OUT SIDE)
SABS - 679	ZINKCHROMATE-BASED BASED PAINT FOR STEEL.
SABS - 681	UNDER COATS FOR PAINT WORK
SABS - 682	ALUMINIUM BODY COLOUR PAINT.
SABS - 723	ETCHING PAINT
SABS - 912	CALCIUM PLUMBED BASED PAINT
SABS -1091	NATIONAL COLOUR STANDARD FOR PAINT
SABS -1186	SAFETY SYMBOL SIGNS

3.3 BUILDING WORK

- 3.3.1** All holes drill through walls of the mobile kitchen shall preferably be drilled with clearance diameter not exceeding 5mm tolerance. The Contractor must ensure that a steel pipe sleeve is installed where the 20mm diameter gas pipe passes through the wall. Filling media such as fibre glass wool shall be used around the gas pipe to cork the pipe where it passes through the sleeve in the wall.

3.4 GUARANTEES

- 3.4.1 The Contractor will be required to guarantee the complete installations unconditionally for a period of 12 months starting after first delivery/Practical completion of the whole installation.
- 3.4.2 If during any one of these twelve months period any of the new installation/apparatus are not in a working order, or not working satisfactorily due to the faulty material, or workmanship, the Contractor will be notified and immediate steps shall be taken by him to rectify the defects and/or replace the effected parts on site, at his/her own expenses. The Contractor will not be held responsible for damages or faulty operating of equipment caused by vandalism after first delivery.
- 3.4.3 The Contractor will be required to guarantee the complete installations unconditionally for a period of 12 months starting after first Delivery/Practical completion of the whole project.
- 3.4.4 The guarantee for new equipment which is normally offered by the manufacturer of the equipment will have no legal binding, influence or affect what so ever on the 12 months guarantee which are compulsory on this project.

3.5 CERTIFICATE OF FULFILMENT:

- 3.5.1 Certificate of fulfilment must be filled in properly and handover to the Consultant Electrical Engineer for all the applicable electric operated apparatus for which a certificate are required according to the law before first delivery (practical completion) can take place.

3.6 CERTIFICATE FOR REGISTRATION AS A FIRE EXTINGUISHER SERVICE CONTRACTOR ACCORDING TO SABS

- 3.6.1 All extinguishers must be serviced strictly in accordance with the latest code of conduct for maintenance of portable fire extinguishers (SABS SPECIFICATION 0105), prior to delivery. Standard Drawing ED 4/6/4 FE accompanied this document showing the wall plate and a typical fire extinguisher. The Consultant reserves the right to ask and send a certified copy of the certificate of membership for verification.
- 3.6.2 Service labels that stating that the extinguisher has been serviced by qualified service men must be affixed to the apparatus. The Contractor who service and supply the extinguishers and other related apparatus must be:-
- **A Member of the "SOUTH AFRICAN FIRE PROTECTION ASSOCIATION OF SOUTHERN AFRICA".**
 - **Must be in possession of a Diamond Mark issued by the SABS.**
 - **Competent Persons Requirements: All service men must be registered at the S.A.O.C.C. (FIRE). Further shall no person who is not in possession of a valid**

Identity Card as prior of competence and is in the employment of a SABS 1475 mark Holding Company that is of good standing, may conduct work on a fire extinguishers and other related apparatus.

3.7 CERTIFICATE FOR REGISTRATION AS A GAS INSTALLER ONLY:

- 3.7.1 The gas installer who will execute the LPG boiling table installation must be register at the LIQUEFIED PETROLEUM GAS ASSOCIATION OF SOUTH AFRICA. A certified copy of his/her Registration Certificate must be supplied before the erection of the project can take place. The Consultant reserves the right to send the certificate (copy) for verification.**
- 3.7.2 The Minister of Labour published on the 4th of October 1997 an amendment to the Occupational Health and Safety Act 1993 in respect to the "Vessel Under Pressure Regulations no:17468". This regulation states that "NO PERSON SHALL INSTALL A FIXED APPLIANCE, EQUIPMENT OR SYSTEM FOR GAS FUEL UNLESS SUCH PERSON IS A HOLDER OF A CERTIFICATE OF REGISTRATION."**

VERY IMPORTANT NOTE

The minimum requirements of an installer for this gas stove installation is that of a DOMESTIC INSTALLER which may according to above mentioned Safety Act, install equipment up to and including two 19 kg L.P Gas cylinders on a changeover valve system.

3.8 COMMISSIONING AND TESTING OF APPARATUS

- 3.8.1 The Contractor must carry out a complete efficiency test under normal working conditions the pressure test instruments must be able to register accurate readings of high quality.**