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Province of the
EASTERN CAPE
HEALTH

INFRASTRUCTRE PROJECT IMPLEMENTATION READINESS DURING THE 2018 MTEF PERIOD

PRESENTATION TO THE NATIONAL COUNCIL OF PROVINCES

17TH OCTOBER 2017

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NATURE OF INFRASTRUCTURE WORK IN ALFRED NDZO

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NATURE OF INFRASTRUCTURE WORK IN ALFRED NDZO

- Repairs and maintenance clinics, hospitals, forensic pathology services units, emergency medical services
- Provision of suitable accommodation for health professionals
- Availability of appropriate medical equipment (Health Technology), including provision of medical gas points
- Eradication of mud, unsafe and inappropriate structures
- Maintenance of plant, equipment and machinery (laundry, kitchen, mortuary equipment and ventilation system)
- Provision of infrastructure support services (water, electricity, lifts and sewerage)
- Safeguarding patients' safety and general infrastructure (security in the form of guard houses and fencing)



INFRASTRUCTURE PROJECT STATUS IN ALFRED NDZO

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PROJECTS CURRENTLY IMPLEMENTED IN ALFRED NDZO REGION - 2017/18 FINANCIAL YEAR

WORKSTREAM	PROJECT NAME	SCOPE OF WORKS	CURRENT STATUS	ESTIMATED COSTS	ESTIMATED CONSTRUCTION PERIOD
	St Patricks Hospital	Upgrading of the main hospital	Completed	341 000 000	40 months
Upgrade Capital Projects	Khutsong TB Hospital	Upgrading of the Main hospital (120 beds) including site works, bulk services and accomodation units	Construction	436 957 164	36 months
	Sipetu Hospital	Construction of Main hospital including site works and bulk services and accomodation units	Construction	502 379 358	36 months
	Meje CHC	A New CHC building including site works, bulk services	Tender documentation	108 000 000	30 months
	Nyaniso CHC	New Building including site works and bulk services	Tender documentation	108 000 000	30 months



PROJECTS CURRENTLY IMPLEMENTED IN ALFRED NDZO REGION - 2017/18 FINANCIAL YEAR

WORKSTREAM	PROJECT NAME	SCOPE OF WORKS	CURRENT STATUS	ESTIMATED COSTS	ESTIMATED CONSTRUCTION PERIOD
Health Facilities Renovations and Repairs	Zulu Clinic	Repairs and upgrade to the main building	Design Development	25 000 000	12 months
	Thabankulu CHC	Renovations & refurbishments to OPD and provision of additional Consulting rooms	Design Development	26 785 714	12 months
	Greenville Hospital	Upgrades and additions to theatres, maternity, wards and pharmacy	Design Development	200 000 000	18 months
	Taylor Bequest Hospital - Matatiele	Construction & upgrades to Kitchen, cold rooms, external works, fencing and accommodation	Design Development	250 000 000	24 months
	Mpindweni Clinic	Completion of a partially built clinic inclusive of accommodation and external works - Initially funded by Cement Core mining Company	Tender	16 600 000	10 months
	Imizizi Clinic	Renovations & refurbishments of admin clinical spaces, ablutions & waiting areas	Design Development	8 100 000	6 months
	DUTYINI Clinic	Provision of a new replacement facility - prefabricated structures	Design Development	15 000 000	10 months
	Mt Ayliff Hospital	Health Facilities Renovations & refurbishments	Design Development	35 000 000	6 months
	Mpetsheni Clinic	repairs and renovation, including provision of a borehole, water tank and new solar panels.	Construction	3 000 000	3 months
	Maluti CHC	Renovations & refurbishments to OPD, pharmacy, laundry, kitchen, X-Ray Dept and provision of additional Consulting rooms	Design Development	60 000 000	6 months



PROJECTS CURRENTLY IMPLEMENTED IN ALFRED NDZO REGION - 2017/18 FINANCIAL YEAR					
WORKSTREAM	PROJECT NAME	SCOPE OF WORKS	CURRENT STATUS	ESTIMATED COSTS	ESTIMATED CONSTRUCTION PERIOD
Electrical and Mechanical Upgrades	Refurbishment of Solar Installations, New Grid Connections	Refurbishment of Solar Installations and Eskom Grid Connections	Tender documentation	13 277 500	12 months
Replacement of Mud and Inappropriate Structures	Lugangeni Clinic	Inappropriate Structure to be replaced by a Greenfield project.	Detailed Design	26 785 714	12 months
	Tela Clinic	Inappropriate Structure to be replaced by a Greenfield project.	Detailed Design	25 000 000	12 months
HEALTH PROFESSIONALS ACCOMMODATION	Nyaniso CHC	Provision of accommodation for health professionals	Complete	23 000 000	18 months
	Meje CHC	Provision of accommodation for health professionals	Complete	25 000 000	19 months
	Greenville Hospital	Provision of accommodation for health professionals	Tender	28 945 000	8 months
	Greenville Hospital	Provision of accommodation for health professionals	Design Development	22 500 000	12 months

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PROJECTS CURRENTLY IMPLEMENTED IN ALFRED NDZO REGION - 2017/18 FINANCIAL YEAR

WORKSTREAM	PROJECT NAME	SCOPE OF WORKS	CURRENT STATUS	ESTIMATED COSTS	ESTIMATED CONSTRUCTION PERIOD
Water and wastewater treatment plants upgrade	Greenville Hospital	Water and Wastewater treatment plant	Construction	5 700 000	12 months
	Taylor Bequest Hospital - Matatiele	Water supply and water storage reservoir	Tender	6 500 000	8 months
	Mt Ayliff Hospital	Water supply and water storage reservoir	Planning	2 000 000	9 months
Fencing and Guard Houses	Fencing & Guardhouses Alfred Nzo Project 1	Construction of new fencing & guard houses at 5 Facilities in Alfred Nzo	Construction	4 300 000	6 months
	Fencing & Guardhouses Project Future - Project 2	Construction of new fencing & guard houses at 10 facilities in Alfred Nzo	Tender	20 476 475	6 months
ESTIMATED TOTAL BUDGET				2 172 445 662	



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PROCUREMENT AND MAINTAINANCE OF MEDICAL EQUIPMENT

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EASTERN CAPE PROCUREMENT AND MAINTAINANCE OF MEDICAL EQUIPMENT (1 OF 4)

- Medico-legal risk management – provide high risk health facilities with maternal and infant care medical equipment e.g. Ultrasounds Units, CTGs, Infant Warmers
- Diagnostic medical imaging – provide diagnostic x-ray imaging equipment and ultrasound units for health facilities
- Ideal clinics – provide medical equipment for clinics as per requirement
- New Equipment for Hospitals (active) – medical equipment additions and replacements.
- New Equipment for Clinics (active) – medical equipment additions and replacements.
- Radiology Equipment and Services (active) – X-ray equipment additions and replacements.
- Maintenance of Medical Equipment (active) – repairs in hospitals and clinics.
- Medical Gas Systems – equipment and piping additions and upgrades
- Sterilization and Cleaning Equipment – new autoclaves and instrument washers.

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PROCUREMENT AND MAINTAINANCE OF MEDICAL EQUIPMENT (2 OF 4)

- **Extending the Life Cycle of Equipment** - Obtain standard manufacturer backed up warranty-cover for 2-years, an option for additional 5-years comprehensive maintenance warranty and using accredited service vendors and OEM parts to maintain Health Technologies.
- **Budget** - Over the MTEF Period, budget allocation for procurement and maintenance of Health Technologies and related activities is allocated a budget of R 762.3 million.
- Emphasis is no longer just on equipment but on the provision a professional service and better financial management.



MEDICAL EQUIPMENT AND OTHER COMMISSIONING RELATED CONTRACTS CURRENTLY PROCURED (3 of 4)

Batch	Group/Category	Health Services/Equipment Description
1	Imaging Equipment	Radiology - CT scanner; Digital r-ray systems; Ultrasound units; Computed radiography readers and printers
2	Critical Equipment	ICU/NICU (Beds, Infant Care Cribs, Incubators, Infant Resuscitators, Ventilators, CPAP's, High Frequency Oscillators, Infusion pumps, Patient Monitors, Transport Incubators, Phototherapy units); Theatre surgery (Anaesthetic Machines, Electrosurgical Units, Theatre Tables, Arthroscopy unit, Bronchoscopes); Maternity (Delivery beds, CTG's; Post-natal; Infant Warmers); Emergency unit (Defibrillators, Laryngoscopes, Transport Ventilators); High-Care and Patient monitoring (Vital Signs Monitors, Electrocardiograms)
4	Medical Furniture Equipment	Patient Beds (ICU, Delivery & General Wards); Medicine trolleys; Bedpans; Bowls, Bedside Cabinets; Over-bed trolleys; Theatre trolleys; Footstools; Couches; Baby Cots etc.
5	Office Furniture	Office Furniture Contract
6	Linen/ Clothing	Theatre surgical; Maternity delivery rooms; Wards; Emergency resuscitation; Bed linen and Patient clothing inventory stock

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MEDICAL EQUIPMENT AND OTHER COMMISSIONING CURRENTLY ON TENDER (4 of 4)

Batch	Group/Category	Health Services/Equipment Description
1	Imaging Equipment	PACS; Slit Lenses; Mammograms; Mobile X-Ray's, Orthopaedic C-Arms
2	Critical Equipment	ICU/NICU (Renal Dialysis); Theatre surgery (Colposcopy units, Laparoscopy units, Orthopaedic Equipment);
3	Diagnostic and Rehabilitation	General diagnostic (OPD); Speech & audiology; Wards; Podiatry; Dermatology; Ophthalmology; Physiotherapy
5	Clinical Furniture	Clinical Furniture Contract (furniture for Clinical spaces)
6	Surgical Instruments	Theatre surgical; Maternity delivery rooms; Wards; Emergency resuscitation;



INFRASTRUCTURE RESPONSE TO MEDICO-LEGAL CHALLENGES IN ALFRED NDZO

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PROJECT DELIVERABLES

- Infrastructure and Health Technology improvements to be effected to the following three regional facilities:
 - Taylor Bequest Hospital
 - St Patricks Hospital and
 - Madzikane kaZulu Hospital

- Essentially, the interventions will focus amongst other on the following critical service areas:
 - Suitable spaces, in the Maternity, Theatres , Paediatrics and Nursery areas
 - Suitable ICU and High-care bed spaces for neonatal patients
 - Suitable infrastructure engineering services (e.g. oxygen, compressed medical air, vacuum and emergency power supply
 - Suitable heating, ventilation and air conditioning (HVAC) and availability of Uninterrupted Power Supply
 - Suitable medical equipment; and
 - Secured and access-controlled doors

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THE BOTTOM LINE

To provide:

- the right health technologies (appropriate, safe, cost-effective);
- in the right combination and quantities (as required by the associated health interventions);
- in full functionality (as per operational requirements);
- at the right time (when they are needed);
- in the right place (where they are needed);
- for the required duration (for however long needed)

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Provincial Government Development Programme



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DECENTRALISATION OF MAINTAINANCE PROGRAMME TO THE REGION

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SCOPE OF WORKS FOR A DECENTRALISATION OF MAINTAINANCE PROGRAMME (2 OF 2)

- Replacement of globes and general lighting
- Replacement of broken window panes
- Grass cutting
- Door/ door lock repairs
- Plumbing/ blockages
- Leaking taps
- Leaking toilets
- Daily checks and testing of plant, equipment and machinery
- Housekeeping
- Ground cleaning
- Roofs, Fascia, Bargeboards, Ceilings,
- Shelving,
- Fixed Seating,
- Signage,
- Waste Cages,
- Disabled Ramps,
- Pedestrian
- Ablutions
- Painting
- Gutters and down pipes
- Rain water goods
- Leaking roofs, geysers and sealings

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MODEL IMPLEMENTATION FOR CRITICAL AND LIFE SUPPORT PLANT, EQUIPMENT AND MACHINERY



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MODEL IMPLEMENTATION FOR CRITICAL AND LIFE SUPPORT PLANT, EQUIPMENT AND MACHINERY

- a) Divided the province into 8 manageable clusters.
- b) Creation of the Centralized Maintenance Management System.
- c) Establishment of a Centralized Call Centre.
- d) Procuring of professional specialist consultants (e.g. clinical, mechanical and electrical engineers)
- e) Establishment of a Planned Maintenance Program for all Plant, Equipment and Machinery
- f) Procuring of registered (CIDB, CSD and SARS) contractors which are regionally based.
- g) Investing in Technical Quality Assurers for each Cluster.
- h) Regular feedbacks and streamlined Communication with end users, especially clinical services
- i) Identification of work packages (first line maintenance) to be done by in house employees
- j) Value for money
- k) Accountability

TYPICAL CRITICAL AND LIFE SUPPORT PLANT, EQUIPMENT AND MACHINERY ITEMS

- Boilers and Associated Equipment breakdowns
- Generator breakdowns and installations
- Electrical Low Voltage and High Voltage, including Uninterrupted Power Supply, Electrical Hospital Communication systems
- Autoclaves and Sterilization Equipment
- Theatre Air Conditioners and Central Air Conditioners
- Vacuum pumps and Compressors
- Mortuary and Forensic Equipment
- Kitchen Equipment
- Laundry Equipment
- Lifts
- Fire Detection and fire Equipment
- General Air-Conditioner
- Water and Sewer Treatment Works Maintenance and
- Industrial Plumbing and Hot water System
- Medical gas installation and piping
- Air Conditioners Split Units

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RESPONSE TO THE NCOP SITE VISITS IN ALFRED NDZO

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- Health facilities were visited:

- **1 - LUGANGENI CLINIC:** existing infrastructure assessed and found to be non compliant

As a short term intervention the department undertook to avail park homes from a nearby facility, but this has not happened as was originally planned. A service provider has now be secured to relocate the identified park home and provide minor maintenance work to the facility. The medium long term is to replace the existing facility as it is not fit for purpose. Planning processes are underway to in ensuring that the department goes out to tender as soon as possible for the new works.

- **2 – MALUTI COMMUNITY HEALTH CENTRE:** the existing infrastructure is far too inadequate to allow this facility to operate as a 24hrs service. As an attempt of improving the situation a three phased approach is currently being implemented as follows:

- Phase 1 - provision of Fencing and Guardhouse – a contractor has been appointed and works is continuing on site.
- Phase 2- urgent repairs and renovations – the department has engaged a contractor to respond to all maintenance issues in this facility. The scope of works to be undertaken will amongst other things, include sewerage and water pressure facing this facility Given the urgency of this work, the contractor has been given the next 2 months to finish the maintenance work, notwithstanding the fact that the facility will continue to be operational.



Response to Site visits by the NCOP (2 of 3)

- Phase 3- upgrade and structural changes – Design engineering processes are underway. The primary intent of this work is inter alia:
 - ✓ To improve infection control including improve ventilation (mechanical and natural) of in the facility
 - ✓ To improve room relation, patient flow and general facility circulation
 - ✓ To provide additional space in non-clinical and clinical spaces
 - ✓ To provide adequacy working spaces in clinical support areas such as laundry and kitchen
 - ✓ Upgrade bulk infrastructure connectivity (water, waste treatment plant and electricity)
 - ✓ Provide additional accommodation units for the health professionals and
 - ✓ To provide adequate health technology services in all dedicated clinical spaces

- 3 - MPETSHENI CLINIC: The department wishes to concede upfront that this facility has not received the same attention as the previous two facilities. This is a pure oversight on the part of the department. The department has since engaged the services of competent service provider to deal with all the infrastructural challenges of this clinic as a matter of extreme urgency, exception being electricity connectivity.



Response to Site visits by the NCOP (3 of 3)

- The primary reason for this exclusion is that there is no Eskom mainline (Grid) close to this facility in order to plug in. This is one of few facilities in the Alfred Ndzo Region that remain not connected to both the municipal bulk infrastructure supply (water and sewerage) and Eskom power mainline.
- As a response to these challenges, the engaged service provider will in the case of power provision, provide new solar panels but ensure that these are secured and easy to maintain. In as far as water provision is concerned, a borehole together with the elevated water-tank will be provided in the facility.
- The service provider is expected to start work before the end of the week of the 16th October 2017 and finish before the end of November 2017.



WAYFORWARD

- Given the urgency and seriousness of all the infrastructure issues to be addressed, it is the intention of the department to provide the Portfolio Committee with monthly progress reports.
- If the Committee agrees, the first of these, will be submitted on the 27th October 2017.



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THE END

THANK YOU

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