

ANNEXURE A: THE BILL OF QUANTITIES - BID-NUMBER: NRMDP/KZN-T02/2020

1 UTHUKELA DISTRICT (MHLUMAYO)

Delivery address: Mhlumayo, Emjindini

GPS Coordinates: 28°39'31.2"S 30°06'43.6"E

Contact person for directions: Mr. Cosmo Zondi

1.1 Supply and delivery of fencing and kraal material, install fencing and put up additional 30x30m pen/kraal at Mhlumayo Feedlot

Item	Quantity or process
3m Steel rods	20
6m treated poles (100-120mm)	80
Plain wire (2mm)	25kg
Fencing staples/fencing nails	30 packets
2.4 m Treated poles (100-120mm)	100
Standard steel poles	60
Galvanized Barbed wire (600m)	10 rolls
Galvanised Razor fence	12 rolls
Cement (all purpose)	100
River sand (cubic metres)	30
Crush stone (19mm)	40 Tonnes
Plain wire (5mm) 50KG	2
3m farm gates (galvanized)	2
Pedestrian farm gate (1.8m)	1
Labour costs	construction

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2 UMZINYATHI DISTRICT

Delivery address: Gunjana Village (Msinga)

GPS Coordinates: 28°38'31.3"S 30°20'33.6"E

Contact person for directions: Mr. Hloniphani Dlamini

2.1 Supply and delivery of construction material at Msinga (Gunjana) CFP

Items	Size	Quantities
2.4 m treated poles	100-120mm	300
6m treated poles	75-100mm	80
Steel I-Beams (130mm)	6m	25
76 X 75 Square tubes (2mm thick)	6m	25
10 X 50 lip channel	9m	72
50 steel round pipe (2mm thick)	6m	22
32 X32 square cube (2mm thick)	6m	10
IBR Sheets (0.4)	3.6m	160
Mounting and binding material		
Steel rods	12mm(6m)	40
Cement (All purpose)	50kg	350
Plain Wire	75mm X 50 kg	5
Plain Wire	100mm X 50 kg	2
River sand	Cubes	90
Crush stone	Cubes	75
Crusher dust	Cubes	30
Drinking troughs	3m	5
Welded mash	3.6 X m (wide) 120 (length)	
Gutters (galvanised)		120 m
Horizontal tanks	2 500L	2

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2.2 Construction of the Msinga (Gunjana) kraal as per the specification below:

Item	Size	Description
Concrete floor	120 X 3.6	Excavate 100mm X 120m trench, fit mesh wire
Roofing	3m X 120 M	Dig a 60 mm trench for poles, 3m between poles, fit iron sheets with roofing screws maintain an even distance between poles
Kraal construction	4 pens of 30M X 60M,	4 lines of cable wire, 3m spacing of poles cast in concrete, fit gates between pens and at the bottom of each pen into passage
Fitting of gutters	120M	Fit gutters and connect to horizontal tanks
Receiving /isolation pen, loading ramp, crush pen and kraal passage	90 m long passage, 30 X 30 isolation/ receiving pen, 30 m long cattle crush pen	construct a 90m X 3M passage with poles and cable wire, 30 X 30 pen with poles, fit neck clamp at the end of the crush pen, set a base for the scale. Construct a 2 sized loading ramp (trucks and bakkies).
Drinking troughs	3m long	fit troughs on the aprons and connect to water sources

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2.3 Supply and delivery steel converted container mobile office at Msinga (Gunjana) CFP

12m converted Office container: 12,05 m (L) x 2,44m (W) x 2,59, (H) 2nd hand steel container

- 4x standard CH2 steel windows (1022 mm x 950mm) fitted with burglar bars
- 2x steel doors
- 1x steel partition
- Painting: interior and exterior
- Electric: 2 x fluorescent lights, DB fitted with 3 plugs
- Air-conditioning

2.4 Supply and delivery 12 m steel storage container at Msinga (Gunjana) CFP

- 12 m long steel container
- Painting: interior and exterior
- Lockable

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3 AMAJUBA DISTRICT

Delivery address: Bernsdorp CFP

GPS Coordinates: 27°40'35.3"S 30°17'51.0"E

Contact person for directions: Ms. Sphelele Nkosi

3.1 Supply and deliver the roof construction material and install roof over the feeding troughs at Bernsdorp CFP

Items	Size	Quantities
Steel I-Beams (130mm)	6m	25
76 X 75 Square tubes (2mm thick)	6m	25
10 X 50 lip channel	9m	72
50 steel round pipes (2mm thick)	6m	22
32 X32 square cube (2mm thick)	6m	10
IBR Sheets (0.4)	3.6m	80
Mounting and binding material		
Steel rods	12mm(6m)	40
Cement (All purpose)	50kg	30
River sand	Cubes	30
Crush stone	Cubes	75
Gutters (galvanised)		90 m

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3.2 Feedlot Water provision through drilling and equipping of the borehole for Bernsdorp CFP

- On site geological & hydrogeological site characterisation;
- Hydrocensus – 500m radius;
- Geophysical surveying for exploration drilling;
- Exploration drilling;
- Aquifer testing of a successfully drilled borehole;
- Hydrochemical analysis of the sampled newly drilled borehole;
- Compilation of borehole management recommendations;
- Compilation of the final investigation technical report.
- Installation of water pipes, water pump, generator (solar/fuel) and connection to the tanks and water trough.

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4 ZULULAND DISTRICT

Delivery address: Kwa-Sonkomose

GPS Coordinates: 27°55'35.9"S 31°43'01.9"E

Contact Person: Ms. Zamandaba Zulu

4.1 *Supply and delivery of treated poles material, reinforce the kraals and reinstall the perimeter fence at Nongoma Feedlot*

- 60 x upright treated poles
- 30x 50kg cement 42.5N
- Service provider to reinforce the kraals
- Reinstall the perimeter fence

Most of the material is already bought

4.2 *Supply and delivery roof material and construct the roof at Nongoma Feedlot*

- 200x 3m Rafters
- 200 x 3m Purnis
- 3.6m x 80 IBR Sheets (0.4)
- Mounting and binding material to be supplied by the service provider (Hurricanes clips, roofing nails, etc.).

Most of the roofing material is already bought

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5 KING CETSHWAYO DISTRICT

Delivery address: KwaBiyela Administration Area / Debe

GPS Coordinates: :28°27'03.7"S 31°42'51.4"E

Contact person for directions: Mr. Novela Zuma

5.1 Supply, delivery fencing material and construct the fence at King Cetshwayo Feedlot

Item	Quantity or process
Plain wire (2mm)	5kgx20
Fencing Nails	30 packets
Galvanized Barbed wire (600m)	20 rolls
Cement (all purpose)	60
River sand (cubic metres)	30
Crush stone (19mm)	40 Tonnes
Plain wire (5mm)	50kg x 6
3 m farm gates (galvanized)	3
Pedestrian farm gate (1.8m)	1
Labour costs	construction

Other fencing material already bought

5.2 Supply, deliver roof material and construct the roof at King Cetshwayo Feedlot

- 3.6m x 80 IBR Sheets (0.4)
- 100x 50kg bags cement 42.5N
- Mounting and binding material to be supplied by the service provider (Hurricanes clips, roofing nails, etc.).

Other roof material already bought

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6 ILEMBE DISTRICT

Delivery address: Kwa Ngcolosi Village

GPS Coordinates: 28°53'58.9"S 31°01'26.9"E

Contact person for directions: Mr. Sanele Nxumalo

6.1 Construction of the Ilembe CFP as per the specification below:

Item	Size	Description
Concrete floor	120 X 3.6	Excavate 100mm X 120m trench, fit mesh wire
Roofing	3m X 120 M	Dig a 60 mm trench for poles, 3m between poles, fit iron sheets with roofing screws maintain an even distance between poles
Kraal construction	4 pens of 30M X 60M,	4 lines of cable wire, 3m spacing of poles cast in concrete, fit gates between pens and at the bottom of each pen into passage
Fitting of gutters	120M	Fit gutters and connect to horizontal tanks
Receiving /isolation pen, loading ramp, crush pen and kraal passage	90 m long passage, 30 X 30 isolation/ receiving pen, 30 m long cattle crush pen	construct a 90m X 3M passage with poles and cable wire, 30 X 30 pen with poles, fit neck clamp at the end of the crush pen, set a base for the scale. Construct a 2 sized loading ramp (trucks and bakkies).
5x Drinking troughs	3m long	fit troughs on the aprons and connect to water sources

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7 MGUNGUNDLOVU DISTRICT

Delivery address: Clarence Village

GPS Coordinates: 29°36'57.5"S 29°39'55.2"E

Contact person for directions: Mr. Mzoli Matwa

7.1 *Supply and delivery material to complete and equip the borehole at Impendle Feedlot*

Completion and Equipping of the borehole

- Complete the borehole and equip it with two (2) 10 000 litre capacity PVC storage tanks, each mounted on steel stands permanently fixed on the in-situ concrete slab and the stands and concrete works should be structurally certified by a registered structural engineer.
- Installation of water pipes and water pump.
- Connect tanks and drinking troughs
- Each borehole is to be connected to an electrical point powered by a back-up generator which is to be supplied and connected by the service provider.
- An electrical certificate of compliance should be submitted for the electrical connection of the borehole to the back-up generator for approval by the DRDLR Project Manager (RID).

7.2 *Supply & deliver crush pen material and set up a 30 m long crush pen at Impendle Feedlot*

- 100 multipurpose cement bags
- 60 cubes crushed stone
- 60 cubes river sand
- 30x 2.4m treated poles
- 40x 6m treated poles (100 - 120mm)
- 15x Steel rods/Round bars 16mm x 6m

Most of the material is already bought

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7.3 Supply and deliver mobile cattle loading ramp

8 UGU DISTRICT

Delivery address: Ridges farm (Harding)

GPS Coordinates: 30°37'25.4"S 30°00'52.5"E

Contact person for directions: Samkelisiwe Xolo

8.1 Water provision through drilling and equipping of the borehole for UGU Feedlot

- On site geological & hydrogeological site characterisation;
- Hydrocensus – 500m radius;
- Geophysical surveying for exploration drilling;
- Exploration drilling;
- Aquifer testing of a successfully drilled borehole;
- Hydrochemical analysis of the sampled newly drilled borehole;
- Compilation of borehole management recommendations;
- Compilation of the final investigation technical report.
- Installation of water pipes, water pump, generator (solar/fuel) and connection to the tanks and water trough.