



TENDER DESCRIPTION:

**APPOINTMENT OF A CONTRACTOR TO RENOVATE AND REPAIR
BUILDINGS ON FIVE FARMSTEADS TO BE USED AS RANGER
OUTPOSTS BY SANPARKS IN THE NATIONAL PARK, NORTHERN
CAPE FOR A PERIOD OF EIGHT MONTHS**

BID NO: NRF/SARAO PEP6/25/2021/22

Closing Date: 11 March 2022

NAME OF BIDDER: _____

CSD NUMBER: _____

GENERAL TENDER INFORMATION

TENDER ADVERTISED	:	Appointment of a Contractor to Renovate and Repair Buildings on Five Farmsteads to be used as Ranger Outposts by Sanparks in the National Park, Northern Cape for a period of Eight Months
CIDB CONTRACTOR GRADING	:	It is estimated that contractors must have a CIDB contractor grading of 4GB or higher. Potentially emerging contractors who satisfy criteria stated in the Tender Data may submit tender offers
COMPULSORY BID & SITE CLARIFICATION MEETING	:	A compulsory bid clarification meeting will take place <u>at Carnarvon Library and on site respectively 23 & 24 February 2022</u>
CLOSING DATE AND TIME	:	11 March 2022 at 11:00AM
SUBMISSION INSTRUCTIONS	:	<u>Electronic submissions</u> must be sent to tenders@sarao.ac.za Bids must be submitted in two separate electronic folders, one with the compliance and technical response, and the second with the financial response. Technical submissions must be in searchable PDF format. Attachments are limited to 25 MB per email. Bidders may use WeTransfer, Dropbox, Google Drive or similar file sharing applications to submit their bid submissions.

TENDERER'S REPRESENTATIVE CONTACT INFORMATION:

NAME OF TENDERER:

CONTACT PERSON:

TELEPHONE NUMBER: CODE.....NUMBER.....

CELL PHONE NUMBER:

E MAIL ADDRESS:

SOUTH AFRICAN RADIO ASTRONOMY OBSERVATORY**BID NO: NRF/SARAO PEP6/25/2021/22****APPOINTMENT OF A CONTRACTOR TO RENOVATE AND REPAIR BUILDINGS ON FIVE FARMSTEADS TO BE USED AS RANGER OUTPOSTS BY SANPARKS IN THE NATIONAL PARK, NORTHERN CAPE FOR A PERIOD OF EIGHT MONTHS**

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T1: Tendering Procedures

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T1.1 TENDER NOTICE AND INVITATION TO TENDER

SOUTH AFRICAN RADIO ASTRONOMY OBSERVATORY

BID NO: NRF/SARAO PEP6/25/2021/22

APPOINTMENT OF A CONTRACTOR TO RENOVATE AND REPAIR BUILDINGS ON FIVE FARMSTEADS TO BE USED AS RANGER OUTPOSTS BY SANPARKS IN THE NATIONAL PARK, NORTHERN CAPE FOR A PERIOD OF EIGHT MONTHS

BID NOTICE

INVITATION AND SCOPE OF WORK

Suitably experienced and qualified Contractors are invited to respond to this bid invitation for the South African Radio Astronomy Observatory (SARAO), as re-advertised -

Bid Number	Bid Description	CIDB Grading	Bid Closing Date and Time
NRF/SARAO PEP6/25/2021/22	APPOINTMENT OF A CONTRACTOR TO RENOVATE AND REPAIR BUILDINGS ON FIVE FARMSTEADS TO BE USED AS RANGER OUTPOSTS BY SANPARKS IN THE NATIONAL PARK, NORTHERN CAPE FOR A PERIOD OF EIGHT MONTHS	It is estimated that contractors must have a CIDB contractor grading of 4GB or higher. Potentially emerging contractors who satisfy criteria stated in the Tender Data may submit tender offers	11March 2022 at 11.00AM

COMPULSORY CLARIFICATION MEETING AND SITE VISIT

A compulsory bid clarification meeting will be held as detailed below:

Bid Clarification Meeting:

Date: 23 February 2022

Time: 09.00 - 11.00 AM

Venue: Kareeberg Municipal Public Library Hall located at 5 Lang Street, Carnarvon.

GPS Coordinates: 30°57'28.18"S (latitude); 22° 7'38.36"E (longitude)

Persons attending the clarification meeting must be duly authorised to represent the bidder.

Persons arriving more than 15 minutes after the commencement of the meeting will not be admitted into the meeting room and will be deemed to have not attended the meeting and as such, will be precluded from submitting a bid. Any bid submitted by a bidder not represented at the clarification meeting will be rejected.

Site Visit:

Date: 23 February 2022

Time: 12.30AM to 15:00PM

Venue: Swartfontein Farmstead

AND

Date: 24 February 2022

Time: 6.30AM to 17:00PM

Venue: SARAO Offices, Klerefontein

TRANSPORT: Please note that the roads on site are gravel roads. It is advisable to use a bakkie. All vehicles used on site must be diesel powered and Bluetooth must be disconnected.

REFRESHMENTS: The SKA site is in an isolated area and the weather conditions are unfavourable. It is therefore advisable to pack in water and come prepared with snacks as there are no facilities available.

PPE: Please note that it is advisable to dress comfortably and keep a sun hat at hand as it may get very hot.

PRE-QUALIFICATION CRITERIA IN TERMS OF THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT NO. 5, 2000 (PPPFA) WILL BE APPLIED AS FOLLOWS:

In terms of the Preferential Procurement Regulation 2017, pre-qualification criteria for preferential procurement as specified in Regulation 4 will apply as follows –

- (a) **Bidders must have a B BBEE status level of between 1 and 4, failing which, will result in disqualification of a bid.**

PREFERENTIAL PROCUREMENT SYSTEM:

The 80/20 preference points system as prescribed in the Preferential Procurement Regulations, 2017 issued under the Preferential Procurement Policy Framework Act, (Act No 5 of 2000) (PPPFA) will be applied to evaluate this bid.

EVALUATION CRITERIA:

Bidders must meet all the mandatory evaluation criteria. In addition, bidders must achieve the minimum score stipulated for each sub-criterion of the functionality criteria, and an overall minimum score of 75% for functionality. Failure to achieve this minimum score shall result in a bid being held to be non-responsive and therefore disqualified.

BID PUBLICATION

Bid documents will be available from **14 February 2022**, on the following websites: www.etenders.gov.za; www.sarao.ac.za/tenders; and www.cidb.org.za

BID SUBMISSION

Electronic submissions must be sent to tenders@sarao.ac.za

Bids must be submitted in **two separate electronic folders**, one with the compliance and technical response, and the second with the financial response. Technical submissions must be in searchable PDF format.

Attachments are limited to 25 MB per email.

Bidders may use WeTransfer, Dropbox, Google Drive or similar file sharing applications to submit their bid submissions.

BID CONDITIONS

SARAO does not bind itself to accept the lowest or any tender and reserves the right to accept any tender or portion of tender.

BID ENQUIRIES

No telephonic enquiries relating to this tender will be permitted. All enquiries regarding this tender must be in writing and directed to:

Technical Queries:

Mrs. Amory Le Roux-Arries

Email: amoryla@sarao.ac.za

Procedural Queries:

Ms. Anwuli Okecha, SCM Specialist

Email: anwuli@sarao.ac.za

T1.1.1 BID CLARIFICATION MEETING

Tenderers will meet at Kareeberg Municipal Public Library Hall located at 5 Lang Street, Carnarvon.

GPS Coordinates: 30°57'28.18"S (latitude); 22° 7'38.36"E (longitude) to hold the compulsory tender briefing meeting.

T1.2 TENDER DATA

T1.2.1 Standard Conditions of Tender

The conditions of tender are the Standard Conditions of Tender as contained in Board Notice 423 of 2019 in Government Gazette No 42622 of 8 August 2019, Construction Industry Development Board (CIDB) Standard for Uniformity in Construction Procurement. (see www.cidb.org.za).

T1.2.2 Variations to the Standard Conditions of Tender

The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall take precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.

The following variations, amendments and additions to the Standard Conditions of Tender shall apply to this tender.

Clause No.	Variation, Amendment or Addition
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C.1	General
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C.1.1	Actions
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*Add the following to the end of **Clause C.1.1.1**:*

The Employer is the South African Radio Astronomy Observatory (SARAO), represented by Amory Le Roux-Arries.

C.1.2	Tender Documents
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*Add the following to the end of **Clause C.1.2**:*

“The Tender Document for this Contract comprises the following:

Not issued to Tenderers, but available from the S.A. Bureau of Standards, the Government printers, the Construction Industry Development Board, and the Employer, as applicable:

1. CIDB, “The Standard for Uniformity in Construction Procurement Annex C, Standard Conditions of Tender”, Board Notice 423 of 2019 of Government Gazette No. 42622 of 9 August 2019.
2. The General Conditions of Contract for this project is the General Conditions of Contract for Construction Works, 2nd Edition, 2010.
3. The Preferential Procurement Policy Framework Act No 5 of 2000, and the Preferential Procurement Policy Framework Act Regulations (June 2017).
4. The Occupational Health and Safety Act No 85 and Amendment Act No 181 of 1993, and the Construction Regulations (2014).

C.2	Tenderer’s Obligations
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C.2.1	Eligibility
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C.2.1.1	<i>Add the following to the end of Clause C.2.1.1:</i>
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A. Construction Industry Development Board (CIDB) Registration

1. Only those tenderers who are registered (as “Active”) with the CIDB (at time of tender closing), in a contractor grading designation equal to or higher than 4GB class of construction work, are eligible to
2. submit a tender offer. Potentially emerging contractors who satisfy criteria stated in the Tender Data may submit tender offers.

B. Joint Ventures and Consortia are eligible to submit a tender offer provided that:

Joint ventures are eligible to submit tenders provided that:

1. Every member of the joint venture is registered with the CIDB;
2. The lead partner has a contractor grading designation in the 4GB class of construction work; or not lower than one level below the required grading designation in the class of works under consideration and possesses the required recognition status.
3. The combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a 4GB class of construction work or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations;
4. Tenders submitted by joint ventures or consortia of two or more firms must be accompanied by a document of formation of the joint venture, authenticated by a notary public or other official deputed to witness sworn statements, in which it defines precisely the conditions under which the joint venture will function, its period of duration, the persons authorised to represent and obligate it, the participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning;
5. The Bidder, if a joint venture or consortium, must submit a signed JV or consortium agreement specific to the tendered Contract and showing clearly the percentage contribution of each partner to the Joint Venture. The value of work to be undertaken by each partner must be within their CIDB grading limit.
6. The following joint venture agreements are recommended for use or to serve as a basis for the development of an agreement –
 - (a) The CIDB Joint Venture Agreement, which is intended for use by all types of contractors, including professional service providers;
 - (b) The South African Federation of Civil Engineering Contractors (SAFCEC) Joint Venture Agreement, which is intended only for joint ventures between established contractors and is not suitable for use by professional service providers.

C. National Treasury Central Supplier Database Registration

Bidders must register on the National Treasury Central Supplier Database (CSD) and provide their CSD registration number where required in this bid document. Bidders who are not registered are not precluded from submitting bids, but must be registered prior to the award of the tender.

In the case of Joint Venture partnerships or Consortia, this requirement will apply individually to each party to the Joint Venture or Consortium.

Bidders who wish to register as on CSD can register online - <https://secure.csd.gov.za/Account/Register>.

D. Attendance of Compulsory Bid Clarification Meeting

Only Bidders who attend the compulsory clarification meeting, and have Form A2 "Clarification Meeting Certificate and Proof of Attendance" signed by the Employer's agent will be eligible to submit a tender offer.

E. Bidder's Tax Status

Bidders must be registered with the South African Revenue Services (SARS) and must submit evidence of this in the form of a CSD registration number and/or valid Tax Clearance PIN Number issued by SARS.

At the point of award of the tender, the recommended bidder must be in good standing with SARS, failing which the bidder must be in good standing within such extended period as may be granted by the Employer, failing which the bidder will be disqualified from further consideration.

Each party to a Consortium or Joint Venture shall submit a separate CSD registration number and/or Tax Clearance PIN Number.

F. Further Compulsory Documents to be submitted with Tender

In addition to all the documents relating to A to E above, and all other documents requested in Section T2.2 (Returnable Documents), it is further required that copies of the following current and valid company certificates be provided:

1. Letter of Good Standing issued by the Compensation Commissioner (COID) or Compensation Insurer.
2. Letter of Good Standing issued by the Department of Labour (UIF).

The above shall be provided for each JV or Consortium partner, where applicable.

G. Minimum Functionality Score to be Achieved

Any bid which scores less than the minimum threshold values stated in the functionality evaluation criteria, as well as the overall minimum score of 75%, will be held to be non-responsive and disqualified.

C.2.7 Bid Clarification Meeting

*Add the following to the end of **Clause C.2.7**:*

"The arrangements for a compulsory bid clarification meeting are as stated in the Tender Notice and Invitation to Tender.

Bidders should be represented by a person or persons who are suitably qualified and experienced to comprehend the aspects of the work involved.

Bidders shall bear all costs for attendance of the clarification meeting."

C.2.13 Submitting a Tender Offer

C.2.13.2 *Add the following to the end of **Clause C.2.13.2**:*

"Bid submissions must be in electronic format.

Bid submissions shall comprise two separate electronic folders or subfolders as follows:

- **"Technical" (T¹) submission** (Technical submissions must be in searchable PDF format), and
- **"Financial" (F²) submission**

Folders must be titled with the bidder's company name and folder title. Attachments are limited to 25 MB per email) Failure to comply with these requirements may result in the tender being deemed non-responsive."

Bidders may use WeTransfer, Dropbox, Google Drive or similar file sharing applications to submit their bid submissions.

C.2.13.3 *Delete the contents of **Clause C.2.13.3** and replace with the following:*

"Electronic bid submissions must be sent to tenders@sarao.ac.za.

Post submission, bidders must send an email to tenders@sarao.ac.za with the password to their financial submission.

C.2.13.4 *Add the following after the first sentence of **Clause C.2.13.4**:*

"The tender shall be signed by a person duly authorised to do so."

C.2.13.5 *Delete the contents of **Clause C.2.13.5**.*

C.2.13.6 *Delete the contents of **Clause C.2.13.6** and replace with the following:*

"A two-envelope procedure as described in **Clause C.3.5** will be followed.

Bids must be submitted in two separate electronic folders, one with the Technical response (**T¹**), and the second with the financial response (**F²**). Each main folder may have sub-folders, and if this is the case, each sub-folder must be clearly indicated as such."

C.2.13.7 *Delete the contents of **Clause C.2.13.7**.*

C.2.13.8 *Delete the contents of **Clause C.2.13.8**.*

C.2.13.9 *Delete the contents of **Clause C.2.13.9** and replace with the following:*

"Only tender offers submitted in electronic format to tenders@sarao.ac.za will be accepted by the Employer."

C.2.15 Closing Time

C.2.15.1 *Add the following to the end of **Clause C.2.15.1**:*

"The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender"

C.2.16 Tender Offer Validity Period

C.2.16.1 *Add the following to the end of **Clause C.2.16.1**:*

"The tender offer validity period is 12 weeks (90 days)."

C.2.16.2 *Add the following to the end of **Clause C.2.16.2**:*

"The maximum extension on the tender offer validity period is 12 weeks (90 days)."

C.2.16.3 *Delete the second sentence of **Clause C.2.16.3**, and replace with the following:*

"If the validity period stated in Clause C.2.16 lapses before the employer adjudicates the tender, the Employer reserves the right to allow bidders to review their prices based on fluctuations in the Consumer Price Index (CPI)."

C.2.17 Clarification of Tender Offer after Submission

*Add the following to the end of **Clause C.2.17**:*

"A tender may be rejected as non-responsive if the Bidder fails to provide any clarification requested by the Employer within such time as is granted by the Employer to provide such clarification. A tender may be rejected if the unit rates or lump sums for some of the items in the bills of quantities are, in the opinion of the Employer, unreasonable, and the Bidder fails, within such time as is granted by the Employer, to justify any specific rates or lump sums (i.e. to provide a financial breakdown of how such rates or sums were obtained) or to adjust the unit rates or lump sums for such items while retaining the total of the prices unchanged."

C.2.23 Certificates

*Add the following to the end of **Clause C.2.23**:*

"The Bidder is required to submit the following certificates with the tender:

A. Certificate of Contractor Registration (CIDB)

Certificate of Contractor Registration issued by the Construction Industry Development Board. Where a bidder satisfies CIDB contractor grading designation requirements through a joint venture or consortium formation, a JV or consortium CIDB certificate plus CIDB certificates for each JV partner must be submitted."

B. Letter of Good Standing issued by the Compensation Commissioner (COLD) or Compensation Insurer

C. Letter of Good Standing issued by the Department of Labour (UIF)

C.3 The Employer's Undertakings

C.3.1 Respond to Questions of Clarification from Bidders

C.3.1.1 *Delete the contents of **Clause C.3.1.1** and replace with the following:*

"The Employer will respond to all clarification questions received from bidders up to five working days prior to the tender closing date, and circulate responses to all bidders who attended the compulsory clarification meeting."

C.3.5 Two-envelope System

C.3.5.1 *Delete the contents of **Clause C.3.5.1** and replace with the following:*

"Where it is stated in the Tender Data that a two-envelope is to be followed, open only the technical proposal of valid bids for evaluation by the Employer's evaluation committee. Technical proposals will not be opened in the presence of bidders' representatives, however a list of bids received by the closing date will be published on the Employer's website within 7 days of the tender closing date."

C.3.5.2 *Delete the contents of **Clause C.3.5.2** and replace with the following:*

“Evaluate functionality of the technical proposals offered by bidders, and only open the financial proposals of bidders who score the minimum number of functionality points or higher.” Financial proposals will not be opened in the presence of bidders’ representatives.

C.3.7 Grounds for rejection and disqualification

*Add the following to the end of **Clause C.3.7**:*

“Bidders will be disqualified if,

- (a) They do not meet the prequalification criteria of BBBEE Level 1-4 status of contributor.
- (b) There is no evidence that they were represented at the compulsory bid clarification meeting.
- (c) Any of the Bidder’s directors or shareholders are listed on the National Treasury Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004, as a person prohibited from doing business in the public sector.
- (d) If, from information given in the completed Compulsory Enterprise Questionnaire or SBD forms, the Employer considers that there is a potential conflict of interest concerning the bidder which may potentially compromise the tender process.
- (e) They have been restricted from doing business with the Employer.
- (f) In a two-envelope system, the bidder fails to submit both a technical proposal and a financial proposal.

C.3.8 Test for Responsiveness

C.3.8.2 *Add the following to the end of **Clause C.3.8.2**:*

“Tenders will also be considered non-responsive if:

- (a) Subject to clause C.3.11.1.1 below, the Tender offer does not meet any one of the eligibility criteria indicated as mandatory in Part T2.
- (b) The Bidder has not fully and correctly completed the Offer portion of D2.1 Form of Offer and Acceptance i.e. the price has not been completed in words and numbers, the Bidder’s details are not completed fully and correctly, and the Bidder has failed to sign the Offer portion of D2.1.
- (c) The Bidder fails to respond, within such time frame granted by the Employer, to any written request for clarification, and such failure renders it impossible for the Employer to clarify any ambiguities in the bid submission, and therefore renders it impossible to evaluate the bid submission any further.
- (d) There are any other material deficiencies in the bid submission which cannot be cured by clarification.

C.3.11 Evaluation of Tender Offers

C.3.11.1 General

*Add the following Clauses after **Clause C.3.11.1**:*

C.3.11.1.1 The Evaluation Method

Subsequent to the Prequalification Assessment (refer to the Tender Notice & Invitation to Tender), bids will be evaluated in a three-stage process, as follows –

STAGE 1: Compliance with administrative requirements in Part T2 (namely, completion of Schedules A1-A7, the Standard Bidding Documents, and submission of the returnable documents in Schedules B1-B5).

In this stage, discretion may be applied to allow bidders to complete and/or sign returnable schedules not completed and/or signed in the first instance or to submit returnable documents not submitted in the first instance, provided that such returnable schedules or documents are of a purely administrative nature and do not pertain to the substance of the bid such as to affect the competitive position of bidders, by giving one or more bidders a second and unfair opportunity to augment the quality (substantive) aspects of their bid. Only compliant bids will proceed to Stage 2.

STAGE 2: Bids will be evaluated on the functionality criteria summarised in Clause C.3.11.1.2. Bids will be evaluated on functionality criteria scored on a sliding scale. Only bids which –

- (i) achieve the minimum score stipulated for each functionality sub-criterion; and
- (ii) score an overall minimum of **75 out of 100** points on functionality, will proceed to Stage 3.

STAGE 3: Bids will be scored on the 80/20 price and preference points system.

The lowest priced bid will not necessarily be accepted and the Employer reserves the right to accept the whole or part of any tender, or not to consider any tender at all.

C.3.11.1.2 Score Functionality

The functionality sub-criteria, minimum and maximum scores in respect of each sub-criterion are listed in the table below. ***Bidders are required to achieve a minimum indicated below for each sub-criterion as well as an overall minimum requirement of 75%–***

Functionality Sub-criteria	Minimum Required Score	Maximum Points (W2)
Capability	15	30
Previous Experience and Track Record	15	30
Method Statement, Preliminary Programme	20	40
Total		100

The total number of bid evaluation points for functionality will be the sum of the points scored for each of the sub-criteria. The points for each sub-criterion will be calculated using the following equation:

$$N_Q = W_2 \times \frac{S_0}{M_S}$$

Where:

NQ = Bidder's functionality points (per sub-criteria)

W2 = the maximum possible number of tender evaluation points awarded for the functionality as stated in the tender data

S0 = the score for functionality allocated to the submission under consideration

Ms = the maximum possible score for functionality in respect of a submission

Functionality shall be scored in accordance with four (4) separate schedules in Part T2.2: Returnable Documents. The basis for assessing each of the functionality criteria are summarised below:

Scored Functionality Criteria		
Criteria	Basis for Assessment	Returnable Schedules
Capability	Staff education and experience	Schedule B6: Schedule of Key Design and construction personnel Schedule B7: Certified copies of Professional Qualifications of Key Construction Personnel Schedule B8: CVs of Key Personnel Schedule B9: Project Organisation Chart of Key Personnel
Previous Experience and Track Record	Past experience in delivering similar construction contracts	Schedule B10: Bidding Entity past experience in delivering similar installation contracts and other projects of similar scale

Method Statement, Preliminary Programme	Provide a method statement addressing activities from contract start date to completion of the project and outlined key milestones.	Schedule B11: Method Statement, Preliminary Programme
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Functionality will be scored by not less than three evaluators. Each evaluator will assess each bid on the mandatory functionality criteria. With regard to the scored functionality criteria, the scores of all evaluators will be totalled and averaged to obtain the final score for Functionality.

The overall minimum score required for Functionality is 75 points (equivalent to 75%). Only those bidders who achieve the minimum scores for each sub-criterion, as well as the overall minimum functionality score of 75 points, will be eligible to be evaluated further in Stage 3.

A maximum of 20 points must be awarded to a bidder for attaining their B-BBEE status level contemplated in the B-BBEE Codes of Good Practice. The points scored by a bidder in respect of the level of B-BBEE contribution contemplated in sub-regulation (4.3) must be added to the points scored for price.

B-BBEE status level of contributor	Number of points
1	20
2	18
3	14
4	12
5	8
6	6
7	4
8	2
Non-compliant contributor	0

C.3.17 Provide Copies of the Contracts

*Add the following to the end of **Clause C.3.17**:*

“The number of paper copies of the signed contract to be provided by the Employer is ONE.”

T1.2.3 Additional Conditions of Tender

The additional conditions of tender are:

C.4 Compliance with Occupational Health and Safety Act 1993 and Construction Regulations (as amended 2014)

Bidders are to note the requirements of the Occupational Health and Safety Act No. 85 of 1993 and the latest amended Construction Regulations (2014) issued in terms of Section 43 of the Act. The Bidder shall be deemed to have read and fully understood the requirements of the above Act and Regulations and to have allowed for all costs in compliance therewith.

C.5 Claims Arising after Submission of Tender

No claim arising out of any doubt or obscurity as to the true intent and meaning of anything contained in the Conditions of Tender and Tender Data, Conditions of Contract, Scope of Work and Pricing Data, will be accepted by the Employer after the submission of any tender and the Bidder shall be deemed to have:

- (a) Read and fully understand the Tender Data.
- (b) Read and fully understood the whole text of the Scope of Work and Pricing Data and thoroughly acquainted himself with the nature of the works proposed and generally of all matters which may influence the resultant contract.
- (c) Visited the site of the proposed works, carefully examined existing conditions, the means of access to the site, the conditions under which the work is to be done, and acquainted himself with any limitations or restrictions that may be imposed by the Municipal or other Authorities in regard to access and transport of materials and plant to and from the site and made the necessary provisions for any additional costs involved thereby.
- (d) Requested the Employer to make clear the actual requirements of anything contained in this bid document, the exact meaning or interpretation of which is not clearly intelligible to the Bidder.
- (e) Have looked at the historical data on the site including weather conditions, accommodation, and geographical data and allowed any of the possible delays on his time risk allowance planning.
- (f) The Employer does not have Geotechnical information; it remains the contractor's responsibility to take into account the uncertainty on the Geotechnical information where trenches and manholes will be constructed and price it accordingly when submitting the bid.
- (g) The Employer does not have a registered landfill site and the contractor is expected to put the pricing for waste management as well as the submission of the Safety files.
- (h) The payment of claims is made 30 days after approval of invoice or the claim by the contractor to the Employer. This will exclude the 28 days where the Engineer verifies the statement with supporting additional information.

C.6 Imbalance in Tendered Rates

In the event of tendered rates or lump sums being declared by the Employer to be unacceptable to it because they are either excessively low or high or not in proper balance with other rates or lump sums, the Bidder may be required to produce evidence and advance arguments in support of the tendered rates or lump sums objected to. If, after submission of such evidence and any further evidence requested, the Employer is still not satisfied with the tendered rates or lump sums objected to, it may request the Bidder to amend these rates and lump sums along the lines indicated by it.

The Bidder will then have the option to alter and/or amend the rates and lump sums objected to and such other related amounts as are agreed on by the Employer, but this shall be done without altering the Contract Price.

Should the Bidder fail to amend the Tender in a manner acceptable to the Employer, the Employer may reject the Tender.

C.7 Targeted Procurement

Objective

The Employer applies and promotes the principles of Targeted Construction Procurement. It is therefore proposed that the following be actively pursued:

- The provision of opportunities for black owned Small, Medium and Micro- Business Enterprises (SMMEs).
- The provision of work opportunities for local labour.
- The maximising of job creation by adopting labour-intensive construction methods wherever feasible and economically justifiable.

Definitions

Local: Local or local area in the context of this project means, in the first instance, the towns of Carnarvon, Williston, Brandvlei and Van Wyksvlei (in Karoo Hoogland and Kareeberg District Municipalities), and then towns in the greater Northern Cape Province.

Locals: Locals has a corresponding meaning to Local, in that it refers to the inhabitants of the area designated under local.

Black designated groups: has the meaning assigned to it in section 1 of the Broad-Based Black Economic Empowerment Act Codes of Good Practice dated 11 October 2013;

Black People: has the meaning assigned to it in section 1 of the Broad-Based Black Economic Empowerment Act Codes of Good Practice dated 11 October 2013;

Contractor and Labour Participation Goals (CLPG)

It is a requirement of this contract that the Main Contractor, be it a joint venture or a consortium or a single organization must comply with the following:

- The Main Contractor must sub-contract a minimum of 20% to SMME's in the Northern Cape of the final accepted contract amount.
- SMME's construction industry (with CIDB Grading level 2) database available on request.
- Targeted labour will be 2% of the final accepted contract amount.

The objectives of the Employer are to:

- Preferentially employ Locals through appropriate channels to minimise the chances of an influx of non- local work seekers; and
- Optimise employment and business opportunities for local black people and black women in particular;

Employment Targets:

The number of person-hours employed in the following designated groups expressed as a percentage of the workforce person-hours for that specific designated group (including Subcontractor's personnel but excluding head office personnel) employed, shall be at least:

Skills level	Criteria	Target (%)
Unskilled labour	Black People	100
Unskilled labour	Black People (women)	20

The Contractor and Labour Participation Goals shall be deemed to be included under the Main Contractor's General Obligations costs.

Measurement of performance

The contractor's participation performance will be measured on a monthly basis to confirm the extent to which the Contractor and Labour Participation Goals (CLPG) have been achieved and the submission of a benefits register, socio-economic and skills transfer development. The benefits register, socio-economic and skill transfer development templates will be provided at the award stage. Regular returns are required from the contractor and shall be submitted with each payment certificate.

The contractor's monthly participation performance towards the CLPG will be measured monthly as follows:

Item	Description	Monthly Target (minimum)	Monthly Amount Achieved	Monthly % Variance	Overall Amount Achieved	Overall % Variance
1.	Contractor Participation Goals (20%)	20%				
2.	Targeted Labour (2%)					
2.1	Unskilled labour (Black People)	100%				
2.2	Unskilled labour (local)	80%				
2.3	Unskilled labour (Black Women)	20%				

Contractors will be required to provide proof of residence of labour employed. This may include, but is not limited to electricity and water accounts, telephone or cell phone accounts, bank statements, copies of vehicle license documents, reference from a school or church, affidavits, or other suitable evidence.

The Contractor shall submit a monthly report indicating the targets that have been met, those that have not been met and the reasons thereof. The Employer will make a determination as to whether the reasons for the variations are valid and justifiable. The Employer shall after making the determination inform the contractor of such determination and the implications thereof. Failure to reach the CLPG shall render the contractor liable for a penalty as specified in Clause 4.21 of the Particular Conditions of Contract.

The Contractor and Labour Participation Goals report template shall be agreed at award stage.

T2: Returnable Documents

Number	Heading	Pages
T2.1	Schedule of Returnable Documents	18
T2.2	Returnable Documents	21

T2.1 SCHEDULE OF RETURNABLE DOCUMENTS

T2.1.1. General

The Tender Document must be submitted as a whole. All schedules and forms must be properly completed as instructed, and the document shall not be taken apart or altered in any way whatsoever.

Bidders are required to complete each and every schedule and form listed below to the best of their ability, as the evaluation of tenders and the eventual contract will be based on the information provided by the Bidder.

Failure of a Bidder to complete the Schedules to the satisfaction of the Employer and submit the Returnable Documents required will result in the bid being held to be non-responsive. However, the Employer may apply the discretion to allow bidders to complete and/or sign returnable schedules not completed and/or signed in the first instance or to submit returnable documents not submitted in the first instance (namely, Schedules A1-A7, the Standard Bidding Documents, and Schedules B1-B5), where they are purely of an administrative nature and do not pertain to the substance of the bid such as to affect the competitive position of bidders, by giving one or more bidders a second and unfair opportunity to augment the quality (substantive) aspects of their bid.

T2.1.2. List of Returnable Documents and Schedules

SCHEDULE	DESCRIPTION	PAGE
Company Authority Documents & Resolutions		
A1	Authority to Sign Bid Document	22
A2	Certificate of attendance at the compulsory bid clarification meeting and site visit	23
A3	Certificate of Authority for Joint Ventures / Consortia	24
A4	Compulsory Enterprise Questionnaire	25
A5	Bidder's bank account details and financial references	27
A6	Certificate of Insurance Cover (Professional Indemnity)	28
A7	Form concerning the fulfilment of the Construction Regulations, 2014	29
Standard Bidding Documents (SBD)		
SBD 4	Declaration of Interest	30
SBD 6.1	Preference Points Claim form in terms of the Preferential Procurement Regulations 2017	33
SBD 8	Declaration of Bidder's Past Supply Chain Management Practices	37
SBD 9	Certificate of Independent Bid Determination	39
Returnable Documents for Compliance Assessment		
B1	Certificate of CIDB Registration of Contractor	42
B2	Tax Clearance	43
B3	Proof of registration on National Treasury Central Supplier Database	44
B4	Copy of BBBEE Certificate or Sworn Affidavit	45
B5	Schedule of Proposed Subcontractors (if applicable)	46
Returnable Documents for Functionality Assessment		
B6	Schedule of Key Design and Construction Personnel	47
B7	Certified copies of Professional Qualifications of Key Construction Personnel	50
B8	Curriculum Vitae of Key Construction Personnel	51
B9	Project Organisational Chart for Key Construction Personnel	53

B10	Bidding Entity past experience in delivering similar installation contracts and other projects of similar scale	54
B11	Method Statement and Preliminary Program specific to this Project	58
B12	Amendments / Alternatives and Qualifications by Tenderer	59
Returnable Documents pertaining to the Contract		
B13	Record of Addenda to Tender Documents	60
B14	Joint Venture Agreement (if applicable)	61
D2.1	Form of Offer and Acceptance	87
D2.2	Contract Data	92
D3.1	Pricing Instructions	96
D3.2	Bill of Quantities	97

T2.1.3. List of Returnable Documents for Stage 1 Assessment

SELECTION CRITERIA/ CHECKLIST		Weight (Mandatory / Optional)	☒ Tick Appropriate Box	
Schedule	Element		GO	NO GO
A1	Authority to sign bid document	Mandatory		
A2	Certificate of attendance at bid clarification meeting	Mandatory		
A3	Certificate of Authority for Joint Ventures / Consortia (if applicable)	Mandatory		
A4	Compulsory Enterprise Questionnaire	Mandatory		
A5	Tenderer's bank account details and financial references	Mandatory		
A6	Certificate of Insurance Cover	Mandatory		
A7	Form concerning the fulfilment of the Construction Regulations, 2014	Mandatory		
Standard Bidding Documents (SBD)				
SBD 4	Declaration of Interest	Mandatory		
SBD 6.1	Preference Points Claim Form in terms of the Preferential Procurement Regulations 2017	Mandatory		
SBD 8	Declaration of Tenderer's Past Supply Chain Management Practices	Mandatory		
SBD 9	Certificate of Independent Bid Determination	Mandatory		
Returnable Documents for Compliance Assessment				
B1	Certificate of CIDB Registration of Contractor	Mandatory		
B2	Tax Clearance	Mandatory		
B3	Proof of registration on National Treasury Central Supplier Database (CSD)	Mandatory		
B4	BBBEE Certificate or Sworn Affidavit	Mandatory		
B5	Schedule of Proposed Subcontractors (if applicable)	Mandatory		

T2.2 RETURNABLE DOCUMENTS

NB: BIDDERS MUST COMPLETE THESE DOCUMENTS / FORMS IN BLACK TYPE OR INK

A1. AUTHORITY TO SIGN DOCUMENTS

I/We*, the undersigned, am/are* duly authorised to sign the form of tender on behalf of

by virtue of the Articles of Association/Resolution of the Board of Directors*, of which a certified copy is attached, or

*Delete whichever is inapplicable

1.			
	NAME	SIGNATURE	DATE

2.			
	NAME	SIGNATURE	DATE

WITNESSES:

1.			
	NAME	SIGNATURE	DATE

2.			
	NAME	SIGNATURE	DATE

23

A3. CERTIFICATE OF AUTHORITY FOR JOINT VENTURES / CONSORTIA

This Returnable Schedule is to be completed only if Bidder is a joint venture or consortium.

We, the undersigned, are submitting this tender offer as a joint venture / consortium, and hereby authorise

Mr/Ms....., authorised signatory ofcompany, close corporation or partnership, acting in the capacity of lead partner, to sign all documents in connection with the tender offer and any contract resulting from it on our behalf.

NAME OF FIRM	ADDRESS	DULY AUTHORISED SIGNATORY
Lead partner		Signature : Name : Designation :
		Signature : Name : Designation :
		Signature : Name : Designation:
		Signature : Name : Designation:

Note: A copy of the Joint Venture / Consortium Agreement showing clearly the percentage contribution of each partner to the Joint Venture / Consortium must be included in the bid submission.

A4. COMPULSORY ENTERPRISE QUESTIONNAIRE

The following particulars must be furnished. In the case of a joint venture / consortium, **separate** enterprise questionnaires in respect of each partner must be completed and submitted.

Section 1: Name of enterprise

Section 2: VAT registration number, if any

Section 3: CIDB registration number, if any

Section 4: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal income tax number*

* Complete only if sole proprietor or partnership and attach separate page if more than 3 partners

Section 5: Particulars of companies and close corporations

Company registration number

Close corporation number

Tax reference number

Section 6: The attached SBD 4 must be completed for each attender and be attached as a tender requirement

Section 7: The attached SBD 6 must be completed for each attender and be attached as a tender requirement

Section 8: The attached SBD 8 must be completed for each attender and be attached as a tender requirement

Section 9: The attached SBD 9 must be completed for each attender and be attached as a tender requirement

The undersigned, who warrants that he/she is duly authorised to do so on behalf of the enterprise:

- i) authorises the Employer to obtain a tax Clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- ii) confirms that neither the name of the enterprise nor the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;
- iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise, has within the last five years been convicted of fraud or corruption;
- iv) confirms that I/we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest;
- v) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

SIGNED:

A5. BIDDER'S BANK ACCOUNT DETAILS AND FINANCIAL REFERENCES

Notes to Bidder:

1. The Bidder shall attach to this form a letter from the bank at which he declares he conducts his account. The contents of the bank's letter must state the credit rating that it, in addition to the information required below, accords to the tenderer for the business envisaged by this tender. Failure to provide the required letter with the tender submission may render the Bidder's offer unresponsive.
2. The Bidder's banking details as they appear below shall be completed.
3. In the event that the tenderer is a joint venture enterprise, details of all the members of the joint venture shall be similarly provided and attached to this form.

The tenderer shall provide the following information:

(i)	Name of Account Holder:	
(ii)	Account Number:	
(iii)	Bank Name:	
(iv)	Branch Number:	
(v)	Bank and Branch Contact Details:	

SIGNED BY/ON BEHALF OF BIDDER:

	NAME		SIGNATURE	

A6. CERTIFICATE OF INSURANCE COVER

Note to Bidder:

In the event that the Bidder is a joint venture or consortium, the details of each partner must also be provided.

Refer to Particular Conditions of Tender pg. 95 of this document.

Bidders shall provide the following details of this insurance cover:

(i) Name of Bidder:

(ii) Period of Validity:

(iii) Value of Insurance:

- Insurance for Works and Bidder's Equipment:

Company:

Value:

- Insurance for Bidder's Personnel:

Company:

Value:

- Motor Vehicles liability:

Company:

Value:

- Third Party liability:

Company:

Value:

The successful bidder shall take full responsibility to restore any damaged existing NRF (SARAO) infrastructure to the status it was prior to damage.

SIGNED BY/ON BEHALF OF BIDDER:

	NAME		SIGNATURE	

In terms of regulation 4(3) of the Construction Regulations, 2014, as amended (hereinafter referred to as the Regulations), promulgated on 18 July 2003 in terms of Section 43 of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) the Employer shall not appoint a contractor to perform construction work unless the Contractor can satisfy the Employer that his/her firm has the necessary competencies and resources to carry out the work safely and has allowed adequately in his/her tender for the due fulfilment of all the applicable requirements of the Act and the Regulations.

- | | |
|-----|--|
| YES | |
| NO | |

- | | |
|--|--|
| Own resources, competent in terms of the Regulations (refer to 3 below) | |
| Own resources, still to be hired and/or trained (until competency is achieved) | |
| Specialist subcontract resources (competent) – specify: | |

- | | |
|-----|--|
| YES | |
| NO | |

[illegible]

SBD 4 DECLARATION OF INTEREST

1. Any legal person, including persons employed by the state¹, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes a price quotation, advertised competitive bid, limited bid or proposal). In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where-

- The bidder is employed by the state; and/or
- The legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.

2. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

2.1 Full Name of bidder or his or her representative:

2.2 Identity Number:

2.3 Position occupied in the Company (director, trustee, shareholder²):

2.4 Company Registration Number:

2.5 Tax Reference Number:

2.6 VAT Registration Number:

2.6.1 The names of all directors / trustees / shareholders / members, their individual identity numbers, tax reference numbers and, if applicable, employee / persal numbers must be indicated in paragraph 3 below.

2.7 Are you or any person connected with the bidder presently employed by the state? **YES / NO**

2.7.1 If so, furnish the following particulars:

Name of person / director / trustee / shareholder/ member:

Name of state institution at which you or the person connected to the bidder is employee:

.....

Position occupied in the state institution:

Any other particulars:

.....
.....
.....

2.7.2 If you are presently employed by the state, did you obtain the appropriate authority to undertake remunerative work outside employment in the public sector? **YES / NO**

¹"State" means –

- (a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);
- (b) any municipality or municipal entity;
- (c) provincial legislature;
- (d) national Assembly or the national Council of provinces; or
- (e) Parliament.

²"Shareholder" means a person who owns shares in the company and is actively involved in the management of the enterprise or business and exercises control over the enterprise.

2.7.2.1 If yes, did you attached proof of such authority to the bid document? **YES / NO**

(Note: Failure to submit proof of such authority, where applicable, may result in the disqualification of the bid.

2.7.2.2 If no, furnish reasons for non-submission of such proof:

.....
.....
.....

2.7.3 Did you or your spouse, or any of the company's directors / trustees / shareholders / members or their spouses conduct business with the state in the previous twelve months? **YES / NO**

2.7.4 If so, furnish particulars:

.....
.....
.....

2.7.5 Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

2.9. If so, furnish particulars.

.....
.....
.....

2.10 Are you, or any person connected with the bidder, aware of any relationship (family, friend, other) between any other bidder and any person employed by the state who may be involved with the evaluation and or adjudication of this bid? **YES/NO**

2.10.1 If so, furnish particulars.

.....
.....
.....

2.11 Do you or any of the directors / trustees / shareholders / members of the company have any interest in any other related companies whether or not they are bidding for this contract? **YES/NO**

2.11.1 If so, furnish particulars:

.....
.....
.....

3. Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	Personal Reference Number	Tax Number	State Number	Employee / Persal

Declaration

I, THE UNDERSIGNED (NAME).....

CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2 AND 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

SBD 6.1 PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

The value of this bid is estimated to **exceed** R50 000 000 (all applicable taxes included) and therefore the 90/10 preference point system shall be applicable.

1.2 Points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contributor.

1.3 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	80
B-BBEE STATUS LEVEL OF CONTRIBUTOR	20
Total points for Price and B-BBEE must not exceed	100

1.4 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.5 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2. DEFINITIONS

- (a) **“B-BBEE”** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) **“B-BBEE status level of contributor”** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (c) **“bid”** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- (d) **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) **“EME”** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) **“functionality”** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (g) **“prices”** includes all applicable taxes less all unconditional discounts;
- (h) **“proof of B-BBEE status level of contributor”** means:
 - 1) B-BBEE Status level certificate issued by an authorized body or person;

- 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
- 3) Any other requirement prescribed in terms of the B-BBEE Act;
- (i) “**QSE**” means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) “**rand value**” means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

3. POINTS AWARDED FOR PRICE

3.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20

or

90/10

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

or

$$P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where

P_s = Points scored for price of bid under consideration

P_t = Price of bid under consideration

$P_{\min}$ = Price of lowest acceptable bid

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

- 4.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

5. BID DECLARATION

5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

6. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

6.1 B-BBEE Status Level of Contributor: . =(maximum of 10 or 20 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

7. SUB-CONTRACTING

7.1 Will any portion of the contract be subcontracted?

(Tick applicable box)

YES		NO	
-----	--	----	--

7.1.1 If yes, indicate:

- i) What percentage of the contract will be subcontracted.....%
- ii) The name of the sub-contractor.....
- iii) The B-BBEE status level of the sub-contractor.....
- iv) Whether the sub-contractor is an EME or QSE

(Tick applicable box)

YES		NO	
-----	--	----	--

- v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations,2017:

Designated Group: An EME or QSE which is at last 51% owned by:	EME √	QSE √
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

8. DECLARATION WITH REGARD TO COMPANY/FIRM

8.1 Name of company/firm:.....

8.2 VAT registration number:.....

8.3 Company registration number:.....

8.4 TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One-person business/sole proprietor
- Close corporation
- Company
- (Pty) Limited

[TICK THE APPLICABLE]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

8.6

COMPANY CLASSIFICATION

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

8.7

Total number of years the company/firm has been in business:.....

8.8

I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBEE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
 - (a) disqualify the person from the bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution.

WITNESSES

.....

.....

.....
SIGNATURE(S) OF BIDDERS(S)

DATE:

ADDRESS

.....

.....

SBD 8 DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1 This Standard Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by institutions in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The bid of any bidder may be disregarded if that bidder, or any of its directors have-
 - a. abused the institution's supply chain management system;
 - b. committed fraud or any other improper conduct in relation to such system; or
 - c. failed to perform on any previous contract.
- 4 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

Item	Question	Yes	No
4.1	Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector? (Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied). The Database of Restricted Suppliers now resides on the National Treasury's website(www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.	Yes ☐	No ☐
4.1.1	If so, furnish particulars:		
4.2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.	Yes ☐	No ☐
4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court outside of the Republic of South Africa) for fraud or corruption during the past five years?	Yes ☐	No ☐
4.3.1	If so, furnish particulars:		
4.4	Was any contract between the bidder and any organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes ☐	No ☐
4.4.1	If so, furnish particulars:		

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME)
CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM TRUE AND CORRECT.

I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST ME
SHOULD THIS DECLARATION PROVE TO BE FALSE.

SIGNED BY/ON BEHALF OF BIDDER:

	NAME		SIGNATURE	DATE

SBD 9 CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Standard Bidding Document (SBD) must form part of all bids¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging). ² Collusive bidding is a *per se* prohibition meaning that it cannot be justified under any grounds.
- 3 Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
 - (i) disregard the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such a system.
 - (ii) cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
- 4 This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- 5 In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid:

¹ Includes price quotations, advertised competitive bids, limited bids and proposals.

² Bid rigging (or collusive bidding) occurs when businesses that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

NRF/SARAO APPOINTMENT OF A CONTRACTOR TO RENOVATE AND REPAIR BUILDINGS ON FIVE FARMSTEADS TO BE USED AS RANGER OUTPOSTS BY SANPARKS IN THE NATIONAL PARK, NORTHERN CAPE FOR A PERIOD OF EIGHT MONTHS

in response to the invitation for the bid made by:

SOUTH AFRICAN RADIO ASTRONOMY OBSERVATORY (SARAO)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: _____ that:
(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation);
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or

(f) bidding with the intention not to win the bid.

8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

B1. CERTIFICATE OF CIDB REGISTRATION OF CONTRACTOR

A certificate of bidder's registration with the Construction Industry Development Board (CIDB) must be included in the bid submission as per the requirements of Clause C.2.1.1 of T1.2.2: Variations to the Standard Conditions of Tender.

Where a bidder satisfies CIDB Contractor grading designation requirements through a joint venture or consortium formation, such bidder must submit the joint CIDB grading of the bidding entity, and the certificates of contractor registration for each partner.

SIGNED BY/ON BEHALF OF BIDDER:

NAME		SIGNATURE	DATE

B2. TAX CLEARANCE

Bidders shall be registered and in good standing with the South African Revenue Services (SARS) and must submit/append documentary evidence/proof in the form of a CSD registration number and/or valid Tax Clearance PIN Number issued by SARS as per the requirements of Clause C.2.1.1 of T1.2.2: Variations to the Standard Conditions of Tender.

Each party to a Consortium/Joint Venture shall submit a separate Tax Clearance PIN Number and/or CSD Supplier Number.

	PIN NUMBER

	CSD SUPPLIER NUMBER

SIGNED BY/ON BEHALF OF BIDDER:

NAME	SIGNATURE	DATE

B3. PROOF OF REGISTRATION ON NATIONAL TREASURY CENTRAL SUPPLIER DATABASE

Bidders must be registered with the National Treasury Central Supplier Database (CSD) and must submit their valid CSD Registration Number as issued by National Treasury, as per the requirements of Clause C2.1.1 of T1.2.2: Variations to the Standard Conditions of Tender.

Bidders who are not registered with CSD are not precluded from submitting bids, but must be registered prior to Contract Award.

Each party to a Consortium/Joint Venture must submit a separate CSD Registration Number.

	CSD REGISTRATION NUMBER

SIGNED BY/ON BEHALF OF BIDDER:

NAME		SIGNATURE	DATE

B4. B-BBEE CERTIFICATE OR SWORN AFFIDAVIT

In terms of Regulation 4(1)(a) of the Preferential Procurement Regulations (2017), pre-qualification criteria based on B-BBEE status level is applicable to this tender.

Bidders must have a B-BBEE status level of between 1 and 4, failing which their bid will be disqualified from further consideration.

A trust, consortium or joint venture (including unincorporated consortia and joint ventures) must submit a consolidated B-BBEE status level verification certificate.

In order to claim B-BBEE points, bidders must submit a Valid BBBEE certificate issued by a Verification Agency accredited by SANAS; or in the case of Exempted Micro Enterprises (EMEs), a sworn affidavit confirming annual total revenue and level of black ownership or a BBBEE certificate issued by the Companies and Intellectual Property Commission; and in the case of Qualifying Small Enterprises (QSEs), a sworn affidavit confirming annual total revenue and level of black ownership.

Bidders will not be awarded points for B-BBEE status level where they intend to sub-contract more than 25% of the value of the contract to any enterprise that does not qualify for at least the points that such Bidder qualifies for, unless the intended sub-contractor is an EME that has the capability and ability to execute the sub-contract.

SIGNED BY/ON BEHALF OF BIDDER:

NAME		SIGNATURE	DATE

B5. SCHEDULE OF PROPOSED SUBCONTRACTORS (IF APPLICABLE)

We notify you that it is our intention to employ the following Subcontractors for work in this contract.

SUBCONTRACTORS			
Category/type	Subcontractor Name/Address/Contact of Person/Phone/e-mail/Details Organisation/Firm/ Experience	Items of work (pay items) to be undertaken by the Subcontractor	% sub-contracted

If there is insufficient space above, the Tenderer may include the additional sheets in the Supporting Documentation file, to be submitted in accordance with Clause C2.13.3 of T1.2.2 Variations to the Standard Conditions of Tender.

Number of additional sheets submitted by the Bidder to this Schedule

(If nil, enter NIL)

Acceptance of this tender shall not be construed as approval of all or any of the listed subcontractors. Should any of the subcontractors not be approved subsequent to acceptance of the tender, this shall in no way invalidate this tender, and the tendered unit rates for the various items of work shall remain final and binding, even in the event of a subcontractor not listed above being approved by the Engineer.

SIGNED BY/ON BEHALF OF BIDDER:

NAME		SIGNATURE	DATE

B6. SCHEDULE OF KEY CONSTRUCTION PERSONNEL

The tender offer shall include an organogram clearly showing the team of key design and construction personnel the bidder proposes to assign to the project and how responsibilities for the various disciplines or work and components of the Works will be assigned. Where specifically indicated in the table below, it will be acceptable for one team member to fulfil more than one role on the project, provided that such team member satisfies the requirements of each role which he/she intends to fulfil.

Bidders must familiarise themselves with the evaluation criteria listed below and submit proposed Key Personnel who satisfy the mandatory requirements stipulated in the Table below. A minimum of 15 points needs to be achieved in this sub criteria to be eligible to be evaluated further:

Criteria	Sub criteria	Indicators	Scoring Allocation	
Capability (Qualifications, Experience and Professional Registration of Construction Teams)	Assessment Team	Construction Project Manager or Civil Engineer with Building experience (over 5 Years' experience)	4	
		Construction Project Manager or Civil Engineer with Building experience (1- 5 Years' experience)	2	
		Construction Project Manager or Civil Engineer with Building experience (no experience in the industry)	0	
	Construction Project Manager	Construction Project Manager or Civil Engineer (Minimum 5 Years' experience) (<i>Can be the same individual as above</i>)	4	
		Construction Project Manager or Civil Engineer with Building experience (1- 5 Years' experience)	2	
		Construction Project Manager or Civil Engineer with Building experience (no experience in the industry)	0	
	Health and Safety Officer (required full time on site)	Health and Safety Officer. Must be registered as a Construction Health and Safety Officer with SACPCMP and registration to be maintained for the duration of the project. (<i>Over 3 years' experience in the construction environment</i>)	4	
		Health and Safety Officer. Must be registered as a Construction Health and Safety Officer with SACPCMP and registration to be maintained for the duration of the project. (<i>1-2 years' experience in the construction environment</i>)	2	
		Health and Safety Officer. Must be registered as a Construction Health and Safety Officer with SACPCMP and registration to be maintained for the duration of the project. (<i>no experience in the construction environment</i>)	0	
	Electrician	Certified Electrician with Wireman's licence <i>and above 3 years' experience</i>	3	
		Certified Electrician with Wireman's licence <i>and 1-2 years' experience</i>	2	
		Certified Electrician with NQF level 3, Wireman's licence <i>and no experience in the industry</i>	0	
Project Organisational Chart	Project Organisational Chart for Key Design and Construction Personnel	The Organogram and supplementary information exceeds the requirements of this bid through the proposal of value-add options which are considered at the same cost or where a reduction in timelines is considered to reduce cost and schedule further	15	
		The Organogram and supplementary information meets the requirements of this bid	8	

		and confirms the Bidder's capacity to undertake this Contract		
		The Organogram and supplementary information is average, does not address all the requirements and leaves questions that the Bidder is capable of undertaking	2	
		The Organogram and supplementary information presented is poor and there is insufficient information to assess whether the Bidder has sufficient resources to undertake this Contract	0	
Total			30 / 100	
Minimum Score Required for the Sub-criterion			15 points	

Table 1: Schedule of Key Construction Personnel

Key Design & Construction Personnel	Name	Qualifications/Track Record	Registration Number	No of years' experience in terms of required skills	Company Name & Physical address and contact details of local office
Design Team:					
Project Manager / Civil engineer					
Construction Team					
Project Manager / Civil engineer <i>(The Incumbent may be the same as above)</i>					
Electrician <i>(Full time on site)</i>					
Health and Safety Officer <i>(Full time on site)</i>					

B7. CERTIFIED COPIES OF PROFESSIONAL QUALIFICATIONS OF KEY CONSTRUCTION PERSONNEL

Certified copies of the professional qualifications of each Team Member listed in Schedule B6: Table 1, above, must be attached to this Schedule.

SIGNED BY/ON BEHALF OF BIDDER:

NAME		SIGNATURE	DATE

B8. CURRICULUM VITAE OF KEY DESIGN AND CONSTRUCTION PERSONNEL

CVs must be submitted in the required format.

Only include CV's for the required personnel as listed in the above table and in the format of the CV template provided in this schedule. Attach CVs in the order that the key Design and Construction Personnel are listed in Schedule B6.

Do NOT include CVs for support staff.

Please Note:

The Bidder should respond to the requirements listed in Table 1 and insert the details of the required personnel in the Schedule of Key Design and Construction Personnel and attach the supporting documentation and subcontracting agreements (where applicable);

The Bidder must clearly indicate in the Table where one person can fulfil various roles;

The names listed in Table 1 for the Key Design and Engineering disciplines will be those personnel that carry design responsibility for the respective design engineering discipline;

Do not include support staff in the Schedule of Key Design and Construction Personnel. Only key personnel will be assessed. Support staff will not be assessed. It is however the responsibility of the Bidder to ensure that the project is provide with adequate support capacity;

Where there are no names next to the suggested Key Design and Construction Personnel, it will be assumed that the Bidder does not have the personnel included in the professional team;

In order to qualify, the team must include all the Key Design and Construction Personnel (or indicate where one person fulfils other roles) and each Team Member must meet the minimum requirements in relation to qualification, registration and number of years' experience as stated in Table 1.

The Key Design and Construction personnel must be registered with their respective related regulatory bodies and have recognised qualifications. Registration with Councils, for those professions where Councils exist, and with Associations or Institutes for those professions where only Associations and / or Institutes exist is required.

Curriculum Vitae Template of Key Design and Construction Personnel Listed in Schedule

NAME OF COMPANY

1. Surname (and maiden name in brackets where applicable):
2. First name/s:
3. Date of birth:
4. Nationality:
5. Education and Specialist training:

Qualification	Institution	Date Obtained

6. Membership of Professional Bodies:

Registration Number:

7. Key Qualifications relevant to this project:

8. Key skills and expertise relevant to this project:

9. High-level overview of professional experience directly related to the role of the team member in this project:

Date (From – To)	
Client	
Location	
Position in firm or project role	
High-level description of duties or responsibilities in position or project team	
Date (From – To)	
Client	
Location	
Position in firm or project role	
Date (From – To)	
Client	
Location	
Position in firm or project role	
High-level description of duties or responsibilities in position or project team	
References: Name: Position: Tel: Email:	

B9. PROJECT ORGANISATIONAL CHART FOR KEY DESIGN AND CONSTRUCTION PERSONNEL

Attach organisational chart for key design and construction personnel to this Schedule.

SIGNED BY/ON BEHALF OF BIDDER:

NAME		SIGNATURE	DATE

B10. BIDDER'S PAST EXPERIENCE IN DELIVERING SIMILAR CONSTRUCTION CONTRACTS AND OTHER PROJECTS OF SIMILAR SCALE

Lists of Current and Completed Projects to be submitted in Table 2 below.

Bidders must familiarise themselves with the evaluation criteria listed below and submit a list of current and completed projects and references to support the allocation of points. A minimum of 15 points needs to be achieved in this sub criteria to be eligible to be evaluated further:

Criteria	Sub criteria	Indicators	Scoring Allocation
Previous experience and Track Record	Past experience in delivering similar construction contracts	The Bidding entity has <u>extensive</u> experience in delivering similar (<u>More than 5 years in the construction industry</u>)	15
		The Bidding entity has <u>limited</u> experience in delivering similar (<u>Less than 5 years in the construction industry</u>) and other projects of similar scale	8
		The Bidding entity has <u>no</u> experience in delivering similar construction project or projects of similar scale	0
	References	Three or more reference letters from clients for whom renovation/build works have been completed or are in progress and clients attest to satisfactory services having been provided by the bidding entity	15
		1-2 reference letters are submitted from clients for whom renovation/build works have been completed or are in progress and clients attest to satisfactory services having been provided by the bidding entity	8
		No reference letters from clients for whom renovation/build works have been completed or are in progress, or reference letters have been submitted but clients have expressed dissatisfaction with the work done	0
	Total		
Minimum Score Required for this Sub-criterion			15 Points

Table 2: List of Previous and Completed Projects

NAME OF COMPANY

PROJECT/EMPLOYER (Name, Tel. No and Fax No.)	NATURE OF WORK	VALUE OF WORK	YEAR OF COMPLETION

REFERENCES LETTERS

Table 3: Reference Template (Minimum of 3) For the Bidding Entity, For Sub-Contractors and Joint Venture Partners

References for Bidding Entity, Sub-contractors and Joint Venture Partners

The bidding entity, its sub-contractors and joint venture partners must provide at least three (3) credible, written and contactable references each from the clients for whom projects have been undertaken similar to SARAO requirements and have indicated their willingness to take SARAO representatives on such site visit to such Client premises if requested.

The references must be provided in the following format:

Company	
Client Point of Contact & Tel Number	
Date of Project (From – To)	
Description of Project	
Role of bidder in project	

Was the project delivered on time? If not, why not?	Poor Score 1	Average Score 2	Met requirements Score 3	Exceeded requirements Score 4
Was the project delivered within budget? If not, why not?	Poor Score 1	Average Score 2	Met requirements Score 3	Exceeded requirements Score 4
Was the project delivered to the required satisfaction/quality to the Client? If not, why not?	Poor Score 1	Average Score 2	Met requirements Score 3	Exceeded requirements Score 4
Were there contract variations in the project? If yes, list them and the reason for them	Poor Score 1	Average Score 2	Met requirements Score 3	Exceeded requirements Score 4
Role of bidder in project	Poor Score 1	Average Score 2	Met requirements Score 3	Exceeded requirements Score 4

Would you use the Bidder/ JV Partners again?

Yes

No (reasons)

Overall

Impression:

.....
.....
.....
.....
.....
.....
.....

Company Representative:

Position in Company:

B11. METHOD STATEMENT AND PRELIMINARY PROGRAM SPECIFIC TO THIS PROJECT

Bidders must familiarise themselves with the evaluation criteria listed below. A minimum of 20 points needs to be achieved in this sub criteria to be eligible to be evaluated further:

Criteria	Sub criteria	Indicators	Scoring Allocation
Method Statements & Preliminary program specific to this project	The method statement must as a minimum address the following aspects: • Overview and project strategy • Project standards and setup • Preliminary program • Cost and financial management • Risk Management	The method statement provides an extensive overview of works and a detailed, clear preliminary program	40
		The method statement provides an overview of works and a clear preliminary program	20
		The method statement is generic and the preliminary program is not clear	10
		The method statement minimum aspects are not addressed and of poor quality. It is unlikely to satisfy the project objectives or requirements	0
Total			40 / 100
Minimum Score Required for this Sub-criterion			20 points

B12. AMENDMENTS/ ALTERNATIVES AND QUALIFICATIONS BY TENDERER

The schedules below are not an invitation for amendments, deviations or alternatives but should the Tenderer desire to make any departures from the provisions of this contract he shall set out his proposals clearly hereunder.

It is also important to note that if alternatives have been suggested, the pricing should still be based on the prescribed scope of works and not on the alternatives.

I / We herewith propose the amendments, alternatives and discounts as set out in the tables below:

(1) AMENDMENTS

PAGE, CLAUSE OR ITEM NO	PROPOSED AMENDMENT

- (i) Amendments to the General and Special Conditions of Contract are not acceptable;
- (ii) The Tenderer must give full details of all the financial implications of the amendments and qualifications in a covering letter attached to his tender.

(2) ALTERNATIVES

PROPOSED ALTERNATIVE	DESCRIPTION OF ALTERNATIVE

- (i) Individual alternative items that do not justify an alternative tender and an alternative offer for time for completion should be listed here.
- (ii) In the case of a major alternative to any part of the work, a separate Bill of Quantities, programme, etc, and a detailed statement setting out the salient features of the proposed alternatives must accompany the tender.
- (iii) Alternative tenders involving technical modifications to the design of the works and methods of construction shall be treated separately from the main tender offer.

(3) QUALIFICATIONS

ITEM ON WHICH QUALIFICATION IS MADE	DESCRIPTION OF QUALIFICATION

- (i) The Tenderer must give full details of the discounts offered in a covering letter attached to his tender, failing which, the offer will be prejudiced.

If there is insufficient space above, the Bidder may append additional sheets.

Number of additional sheets appended by the Bidder to this Schedule

(If nil, enter NIL)

SIGNED BY/ON BEHALF OF BIDDER:

NAME		SIGNATURE	DATE

B13. RECORD OF ADDENDA TO TENDER DOCUMENTS

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been considered in this tender offer:		
No.	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		

If there is insufficient space above, the Bidder may include the additional sheets in the Supporting Documentation file, to be submitted in accordance with Clause C2.13.3 of T1.2.2 Variations to the Standard Conditions of Tender.

Number of additional sheets submitted by the Bidder in respect of this Schedule (If nil, enter NIL)

SIGNED BY/ON BEHALF OF BIDDER:

NAME		SIGNATURE	DATE

B14. JOINT VENTURE, CONSORTIUM OR PARTNERSHIP AGREEMENT (IF APPLICABLE)

If the bidder is a Joint Venture, Consortium or Partnership, a certified copy of the signed Joint Venture, Consortium or Partnership Agreement must be attached to this Schedule as per the requirements of Clause C.2.1.1 of the T1.2: Variations to the Standard Conditions of Tender.

SIGNED BY/ON BEHALF OF BIDDER:

NAME		SIGNATURE	DATE

D1: Scope of Works

Number	Heading	Pages
D1.1	Background to the National Research Foundation and the Square Kilometre Array	63
D1.2	Scope of Work	64

D1.1 BACKGROUND TO THE NATIONAL RESEARCH FOUNDATION AND THE SQUARE KILOMETRE ARRAY

The National Research Foundation (“NRF”) is a juristic person established in terms of section 2 of the National Research Foundation Act, Act 23 of 1998. The NRF supports and promotes research and human capital development through funding, the provision of National Research Facilities and science outreach platforms and programmes to the broader community in all fields of science and technology, including natural science, engineering, social science and humanities. The NRF is a Schedule 3A entity in terms of the Public Finance Management Act of 1999 (Act 1 of 1999 as amended by Act 29 of 2000).

The South African Radio Astronomy Observatory (SARAO), a facility of the National Research Foundation, is responsible for managing all radio astronomy initiatives and facilities in South Africa, including the MeerKAT Radio Telescope in the Karoo, and the Geodesy and VLBI activities at the HartRAO facility. SARAO also coordinates the African Very Long Baseline Interferometry Network (AVN) for the eight SKA partner countries in Africa, as well as South Africa’s contribution to the infrastructure and engineering planning for the Square Kilometre Array (SKA) Radio Telescope. To maximise the return on South Africa’s investment in radio astronomy, SARAO is managing programmes to create capacity in radio astronomy science and engineering research, and the technical capacity required to support site operations. In the reference documentation, SKA SA is understood to mean SARAO.

South Africa and its 8 African partner countries were jointly awarded the SKA together with Australia. The SKA will be Africa’s largest science project which will be a hub for both local and international collaboration. The SKA Organisation has been established with its headquarters at Jodrell Bank in Manchester, United Kingdom. The five key science projects that will be undertaken by the SKA include:

- Probing the Dark Ages
- Galaxy Evolution
- The Origin and Evolution of Cosmic Magnetism
- Strong Field Tests of Gravity using Pulsars and Black Holes
- The Cradle of Life.

The first phase of the SKA1-MID project includes the addition of 133 antennas to the 64-dish MeerKAT radio telescope and the second phase of the project and will include up to 2000 antennas distributed across South Africa and its eight African partner countries.

SARAO has offices based in Johannesburg and Cape Town, as well as the HartRAO facility at Hartebeesthoek and radio-quiet SKA host site in the Karoo, 90km from Carnarvon in the Northern Cape, which hosts the Square Kilometre Array mid-frequency telescopes, MeerKAT, and KAT-7 radio telescope installations, as well as a number of guest instruments, including the HERA telescope.

Further information about SARAO can be found on www.ska.ac.za and the international SKA on www.skatelescope.org.za

D.1.2 SCOPE OF WORKS

D.1.2.1 CONTEXT OF THE PROCUREMENT NEED

The South African Radio Astronomy Observatory (SARAO) embarked on a land acquisition programme during 2015 to 2017 to acquire identified portions of land to enable the construction and protection of the Square Kilometre Array (SKA) Radio Telescope. South Africa, in collaboration with Australia were jointly awarded the SKA Project in 2012.

SARAO has secured 40 portions of land as part of the SKA land acquisition programme. This equates to 135 245 hectares of land which forms part of the NRF-owned land where 80% of the SKA Radio Telescope will be established.

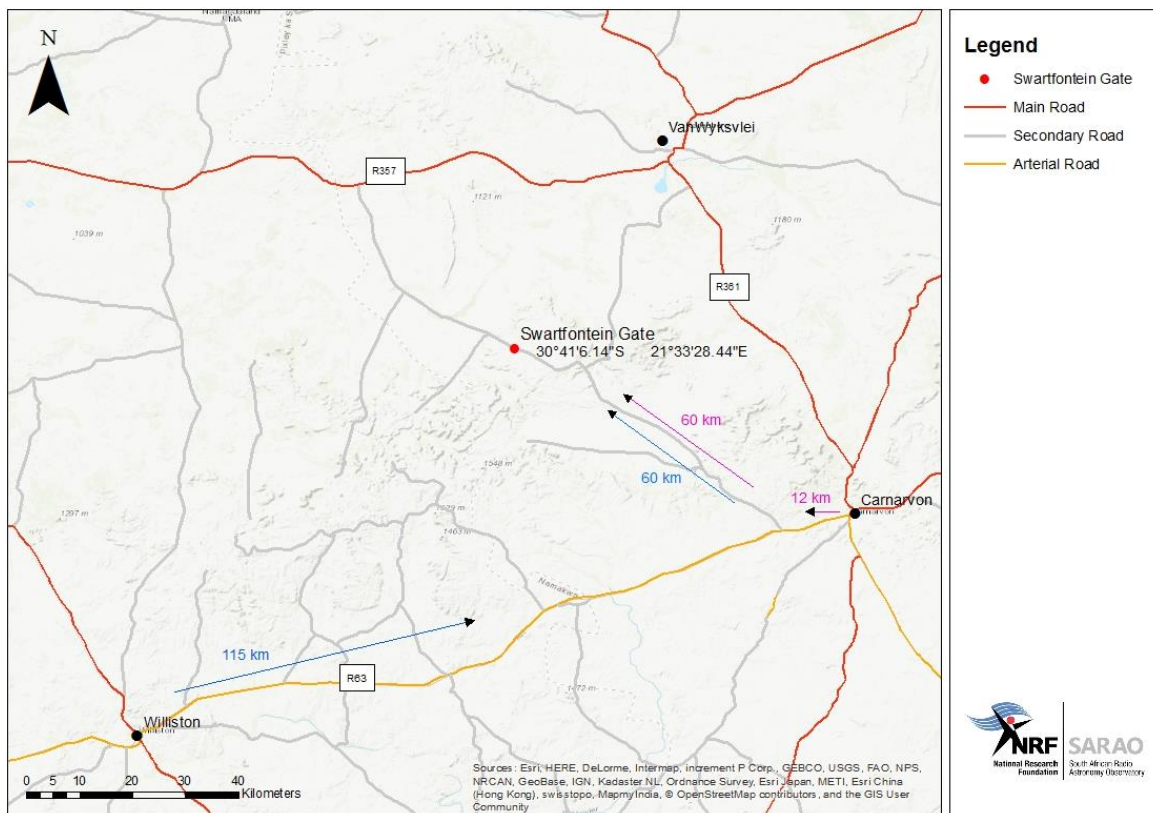
In September 2019 a Management Agreement was concluded between the National Research Foundation and South African National Parks (SANParks) to appoint SANParks as the land management authority on behalf of the NRF. This appointment is in line with the management outcomes defined in the Integrated Environmental Management Plan approved by the Minister of Environmental Affairs to appoint an appropriate conservation management agency for the maintenance and management of the NRF-owned land. The land management responsibility is derived from South Africa's offer to host the SKA telescope and provide a site for the construction and operation of the radio telescope.

To enable SANParks to undertake their functions as per the management agreement as the land management authority the necessary infrastructure and accommodation need to be made available by SARAO. During March 2020, the NRF-owned land was declared as the Meerkat National Park by the Minister of Environment, Forestry and Fisheries.

D.1.2.2 LOCALITY

The SKA1_MID telescope site is in the Northern Cape Province, surrounded by the towns of Carnarvon, Williston, Brandvlei and Van Wyksvlei, as indicated in Figure 1 below.

The SKA1_MID site is approximately 650km and 900km from Cape Town and Johannesburg city centres respectively, and approximately 90 km WNW of the town of Carnarvon. Access to the site is via a provincial tar (sealed) road.



GPS Coordinates:

https://mail.google.com/mail/u/0?ui=2&ik=4ec19d0881&attid=0.1&permmsgid=msg-f:1672994355476404714&th=1737ab809d6799ea&view=att&disp=safe&realattid=f_kcyikxcs0

D.1.2.3 SCOPE OF WORK SUMMARY

SARAO is seeking to appoint a service provider to implement the specifications contained in this document for:

APPOINTMENT OF A CONTRACTOR TO RENOVATE AND REPAIR BUILDINGS ON FIVE FARMSTEADS TO BE USED AS RANGER OUTPOSTS BY SANPARKS IN THE NATIONAL PARK, NORTHERN CAPE

Please note reference designs will be supplied by SARAO however the ultimate design responsibility for making changes will rest with the successful bidder.

Should an alternative design be accepted by SARAO the contractor's amended design will need to comply with specific SARAO requirements.

All design work undertaken by the Contractor will strictly comply with the specified procedures and relevant Technical Specifications.

The Table below shows the GPS coordinates for all the points of interest in this project and it remains the contractor's responsibility to familiarize themselves with the location of these sites.

Table 1: GPS coordinates for all the site points of interest.

Location	Latitude (S)	Longitude (E)
Swartfontein Farmstead	30° 39' 57.60"	21° 31' 48.92"
Jaskloof Farmstead	30° 46' 22.9"	21° 14' 58.8"
Schietpoort Farmstead	30° 33' 27.9"	21° 25' 27.2"
Janseboom Farmstead	30° 48' 44.34"	21° 31' 17.02"
Visserskloof Farmstead	30° 40' 24.6"	21° 35' 18.3"

D.1.2.4 LEGAL, ENVIRONMENTAL, HEALTH AND SAFETY

Tenderers are to note the requirements of the Occupational Health and Safety Act No. 85 of 1993 and the latest amended Construction Regulations (2014) issued in terms of Section 43 of the Act. The Tenderer shall be deemed to have read and fully understood the requirements of the above Act and Regulations and to have allowed for all costs in compliance therewith.

This section describes the legal, environmental and health and safety requirements that the contractor engaged to this contract (**APPOINTMENT OF A CONTRACTOR TO RENOVATE AND REPAIR BUILDINGS ON FIVE FARMSTEADS TO BE USED AS RANGER OUTPOSTS BY SANPARKS IN THE NATIONAL PARK, NORTHERN CAPE**) must comply with. Health and Safety will not form part of functional evaluation criteria however THE SUCCESSFUL BIDDER WILL BE MANDATED TO SUBMIT ALL DOCUMENTATION REQUIRED FOR COMPLIANCE WITH HEALTH AND SAFETY REQUIREMENTS BEFORE WORKS CAN BEGIN.

Note: Compliance with Health and Safety requirements will be in accordance with *Health and Safety Specification and Baseline Risk Assessment*.

THE SUCCESSFUL BIDDER WILL BE MANDATED TO SUBMIT ALL DOCUMENTATION REQUIRED FOR COMPLIANCE WITH ENVIRONMENTAL REQUIREMENTS BEFORE WORKS CAN BEGIN.

Note: Compliance with Environmental requirements will be in accordance with *Integrated Environmental Management Plan (IEMP), National Environmental Management Act 107 of 1998 and NEMA: Waste Act no 59 of 2008*.

All relevant legal requirements with regards to *OHS Act 85 of 1993 as amended and applicable regulations, Integrated Environmental Management Plan (IEMP), National Environmental Management Act 107 of 1998, NEMA: Waste Act no 59 of 2008, and Municipal By-laws* will be adhered to. It will be the contractor's responsibility to make themselves aware of these laws and acts.

All surplus or waste material is to be removed from the site by the contractor and disposed of in an environmentally responsible manner in accordance with *NEMA: Waste Act no 59 of 2008 as amended* and applicable regulations where these exist. Disposal certificates must be presented to SARAO (South African Radio Astronomy Observatory) or their appointed representative.

Note: There is no registered Landfill site in Carnarvon. Bidders must make provision for disposal at any other registered Landfill site.

All usable surplus material that was supplied by SARAO or their appointed agent must be returned to an agreed location.

Any temporary work sites or storage areas used during the delivery of this project are to be decommissioned and restored to the satisfaction of the landowner. Temporary storage areas for materials can be made available at the SARAO facilities, by prior arrangement to be agreed with the SARAO Site Manager.

Reliable two-way communication is required across the telescope site to comply with Health and Safety requirements. The telescope site is a controlled radio-quiet zone. Two-way radios operating in an approved frequency band are obtainable for use from the SARAO (South African Radio Astronomy Observatory) Site Manager on payment of a specified deposit and must be returned to the Site Manager on completion of the project. All electronics devices are prohibited at the telescope site, with the exclusion of devices and equipment approved and issued with a permit by SARAO (this requirement is applicable to activities conducted in and around the telescope site).

D.1.2.5 SARAO SITE CONSTRAINTS, FACILITIES AND CONDITIONS

D.1.2.5.1 Available Facilities and Restrictions

SARAO will not provide any on-site accommodation to the contractor or subcontractor staff. The contractor should procure accommodation in the town of Carnarvon at their own cost. However, an office and small lockable storage area could be made available on site.

The Bidder must provide appropriate living conditions for all contractor, sub-contractor staff and consultants as none will be provided by the SKA. Living conditions shall be similar to their home living conditions or better.

The Bidder must ensure that the office space provided is well maintained and regular housekeeping is done. Random audits will be conducted by SARAO representatives to ensure this is achieved.

The Bidder is advised that SARAO has adopted a strict **No alcohol and illegal narcotic or other drugs policy** on site and shall be enforced by both the Contractor and SARAO, resulting in serious disciplinary action for offenders.

The Bidder is advised that all key personnel for this project will be screened by the Security and alcohol screening will be undertaken on all site entries.

D.1.2.5.2 Radio Frequency Interferences/EMI

SKA has a Radio Frequency Interference Policy, which all personnel and contractors on site must comply with. The bidders need to be aware that the SKA1_MID core area is a Radio sensitive area and all electronic equipment the team needs to use within the core area will need to be tested for Radio Frequency Interference (RFI) and permits will need to be issued for their use prior to gaining access to the site. The RFI concerns on site are further described in the RFI policy document.

Over and above the above mentioned, the bidders need to also be aware of the following:

- Critically, all motor-driven equipment and vehicles brought to site shall be **diesel powered**. Only vehicles and motor-driven equipment declared in the bid documentation will be permitted on site, unless agreed to by the SARAO prior to commencement of the works. This includes generators, compressors, micro cable blowing equipment and cable tensioning equipment. Vehicle Bluetooth systems shall be disabled prior to arrival on site and will **remain OFF** for the duration that the vehicle is on site.
- Critically, cell phones (mobile phones) are **prohibited from being ON**, regardless of mode (i.e. flight mode operation is not permitted).
- Critically, no radio transmitters shall be operated on the site without the prior explicit approval of the SARAO for each item required.

*Exceptions required by the contractor will not be evaluated; however it **shall be declared upon award**, and are subject to approval by the SARAO. Only SARAO approved devices will be permitted to operate on the site. Devices will be required to undergo testing by SARAO to determine whether they will be approved for use on site.*

D.1.2.6 DETAILED SPECIFICATION

The purpose of this document is to provide an overview of the Scope of Work for the Renovation and Repairs of Farmsteads to be used as ranger outposts by SANParks. This document has been written with the viewpoint that the detailed engineering and ultimate design responsibility for making the changes will rest with the party contracted to do the work.

The contractor's design needs to comply with specific SARAO requirements, best industry practices and applicable laws and regulations.

This contract includes the completion of construction drawings, supply, delivery, installation, testing and commissioning.

The Contractor shall carry out the Contract in four phases as follows:

1. Review and Analysis of SARAO Layout Designs (see Appendix A and B)
2. Once the contractor has redlined the drawings and has been approved by SARAO (Note that all drawings shall be approved by SARAO before execution), SARAO shall then take the drawing and make a formal drawing that will be signed and approved by both parties.
3. Execution Phase
4. Defects Liability Period

D.1.2.6.1 Data issued for Reference Purposes

The detailed design and supporting information contained in this report is issued as a reference design that must be validated, amended where required with the approval of the SARAO, be owned by the appointed contractor and be used as a basis for construction.

This information set is listed below:

- Layout Drawings
- Statement of Work for Construction
- Pricing Schedule

D.1.2.6.2 Data That Must Be Complied With

The bidder must strictly adhere to the information listed below:

- SA Site Information & Instructions: SKA1_MID - [SKA-TEL-SKO-0001040]

D.1.2.6.3 Description of the Design Activities

The following section outlines the design process to be followed by the appointed contractor.

Reference designs for the work associated with the Farmsteads Renovations have been completed by SARAO with the help of SANParks.

The Contractor will be responsible for either validating the design carried out by SARAO or, alternatively, propose an entirely new compliant and validated design. Either of the two above approaches will require that a formal design and approval process be carried out by the contractor prior to the commencement of any construction work.

All design work undertaken by the Contractor will strictly comply with the specified procedures and relevant Technical Specifications. Alternatives are proposed but should still be reviewed for acceptance. The Construction Works will comply with all relevant health and safety requirements, quality requirements as well as all applicable environmental requirements. Only the reference designs are to be used for pricing of the tender.

The Contractor will carry out all necessary engineering site investigations for the project. The Contractor must inspect the Site/Building and familiarize him or herself with the required scope of work to ensure all the necessary materials, equipment, resources, etc., is included in their fixed price.

If the Contractor wishes to deviate from SARAO Reference Designs, the Contractor may submit the alternative proposal with justifications/motivations, which will be reviewed for acceptance during Tender submission. Construction cannot start until the detailed design or the redlined drawings are approved by the SARAO.

D.1.2.6.4 Design Standards

In the event of conflict between the relevant design drawings, precedence for technical issues will be as given in the order below:

- South African Acts and Regulations, then
- SARAO Project Specifications, then
- National Standards, then
- International Standards, then
- Other documents at the discretion of the SARAO, then
- Discrepancies identified by the contractor.

The engineering design of the works will be based on the application of the design drawings herein, all national and international codes and standards, as well as good engineering practice. Any variation from the design drawings herein will be subject to the approval by SARAO, based on a detailed justification by the Contractor. The design drawings herein may be altered as agreed upon in writing between the SARAO and the Contractor, dependent on future technological advances in the field of the relevant engineering disciplines. Should alternatives be agreed upon please note that these proposed changes should not have a material impact on the price nor pose major risks.

D.1.2.6.5 Phase 1: Review and Analysis of SARAO, Reference Designs and other Information

The Contractor will undertake a detailed review of the reference design drawings and liaise with SARAO representatives to understand the design intent. All recommended solutions shall be verified by the Contractor. Any clarifications on drawings which are unclear or require further discussion and where drawings can be optimized/ reduced are to be discussed with SARAO during this Review period.

Upon completion of the review, if there are comments, the comments shall be submitted to SARAO for review within two (2) Weeks from the Commencement Date:

- Comments on the Reference design drawings
- Suggestion in terms of modifications / changes to the designs that are to be agreed.

D.1.2.6.6 Phase 2: Detail drawings or Redlining Drawings provided by SARAO.

The Preliminary/detail drawings will include the submission of the following documents/drawings to the SARAO for review as and when required:

- Provide construction working drawings (where applicable) in AutoCAD format DWG, DXF and PDF Format (including detailed specifications:
 - A list of all applicable standards used
 - Any cost changes with justifications for SARAO responses
- Detailed Bill of Quantities (un/priced) for construction in MS Excel and WinQS/QSPlus or other measuring software format.
- Test and Verification (Qualification Test Procedure) procedures for all sub elements

Should an alternative design be proposed by the bidder, the Contractor will submit the Preliminary Design within four (4) weeks from SARAO acceptance of (Phase 1) documents and the final Detailed Design within six (6) weeks after the acceptance of the Preliminary Design.

The amount of detailing produced on the drawings will be sufficient to adequately describe the intent of the design with no room for alternative interpretations during construction. Therefore no major or significant details will be left to the discretion of the SARAO site supervisor.

All documentation delivered under the Contract (including reports, drawings, test reports, manuals, etc.) shall be in English. Dimensions and units shall follow the SI system in accordance with South African statutory requirements, notably SANS M33a. Documents and drawings generated for the project (other than manufacturer's shop drawings) shall follow the SARAO document and drawing guidelines unless otherwise agreed by both parties - the intention is that documents and drawings shall be legible.

The copies of the documents will comply with the following requirements:

- Reports and calculations of A4 size and suitably bound; and
- Drawings will be ISO A1-A3 and printed to scale;
- All drawing and dimensions will be done to scale, however, in circumstances where this is not the case, it will be clearly stated on the drawings that they are not to scale (NTS). To all such dimensions the abbreviation "NTS" will be added.

All electronic submissions should be submitted in the following file formats:

- All documents for review and comments in MS-Word
- All signed (approved) documents shall be filed in eB by SARAO.
- All documents containing drawings or large files as attachments in pdf format.
- All drawings in either Dwg or DXF format and pdf format
- Lists, BOQ etc. in MS Excel or WinQS/QSPlus
- Project programs in Microsoft Project / Primavera 6
- All compression of files to be in WinZip format.

Covers and titles of documents will be as agreed upon between SARAO and the Contractor.

Following approval of the Contractors Detailed Design by the SARAO, no change in the design will be made during the Contract without the prior written approval of the SARAO. Approval of the Preliminary and Detailed Design will not relieve the Contractor of its liabilities and obligations under contract.

D.1.2.6.7 List of applicable Reference Design Documents

The Reference Design Documentation of the various installations is included in appendices attached.

D.1.2.7 PROJECT DEFINITION

D.1.2.7.1 Item Definition

Farmstead Renovations and repairs will form an integral part of the management processes for the MeerKAT National Park. It is planned that the established office at Swartfontein farm will serve as the SANParks office near the entry of the National Park.

Care shall be taken not to damage existing equipment on site during construction works.

The Contractor (preferably along with The Client's Representative) shall at commencement of the works take photos of all existing equipment notably power cables and fibre, both visible and below trench covers and raised floors. The photos shall be used to confirm no equipment was removed during the installation.

The installation shall be suitable for its intended duty with respect to the electrical supply, distribution, and load requirements. The installation shall be suitable for the environmental conditions, particularly with respect to corrosion resistance and ingress protection. The installation shall be suitable for its intended location, particularly with respect to the mechanical properties and impact strength of the components. The installation, including its circuit arrangements, shall satisfy the operational and functional requirements of The Client and be readily and easily maintainable throughout its operating life.

D.1.2.8 Project Phases Definition

The execution of the work is broken down into the distinct phases/activities shown in covering the essential project cycle. The objectives and detailed activities associated with each of the phases/activities are outlined.

Table 2 shows the Project Phases Definition.

Table 2: Project Phases Definition

Activity		Action By	Documentation
Phase 1 - Review and Analysis of SARAO Reference Designs			
1.1	Review and Analyse SARAO Reference Design Documentation and other Recorded Information	Contractor	Design review report
1.2	Review meeting / Workshop	Contractor / SARAO	Consolidated Minutes of the review meeting
Phase 2 – Preliminary and/or detail Design			
2.1	Preliminary Design	Contractor	Preliminary Design Document
2.2	Preliminary Review	SARAO	Preliminary review report
2.3	Detail Design	Contractor	Detailed Design Document
2.4	Detail Design Review	SARAO	Detailed design review report
2.5	Final Detailed Design Updates to Reports, Drawings, and all supporting documentation	Contractor	Approved Detailed Design Document
Phase 3 – Execution Phase			
3.1	Design assembly drawings	Contractor	Design assembly drawings
3.2	Review and acceptance of design assembly	SARAO	SLD drawings, Assembly GA drawings
3.3	Planning of Installation & Shut Down period	Contractor / SARAO	Approved Detailed Implementation Plan / Schedule
3.4	Implementation on site Start	Contractor	
3.5	Shut Down	Contractor	Approved Detailed Implementation Plan / Schedule
3.6	Site Acceptance Test (SAT)	Manufacturer/ Contractor/ SARAO Commissioning Engineer	SAT document
3.7	Final Test and Commissioning	Manufacturer/ Contractor/ SARAO Commissioning Engineer / SARAO (other)	Commissioning Test document
3.8	Close out	Manufacturer/ Contractor	As-built drawings, O&M Manuals, Training etc.
Phase 4 - Defects Liability Period			
4.1	Defect & Liability Period	Manufacturer/ Contractor	Defects liability certificate

D.1.2.9 Project Schedule

Upon appointment the Contractor shall draw up a detailed schedule of works for the project which shall be submitted for acceptance to SARAO within one (1) week of appointment. The total time span for the tasks shall not exceed the agreed planned time, from Kick-Off to completion.

The order of priority for delivery is as follows:

1. Swartfontein Farmstead - Milestone for Swartfontein Farmstead is 3 months from the date of contract award.
2. Jaskloof Farmstead
3. Janseboom Farmstead
4. chietpoort Farmstead
5. Visserskloof Farmstead

D.1.2.10 SUMMARY OF SCOPE OF WORK FOR ALL BUILDING ALTERATIONS

The following summarises the requirements at each farmstead. The full scope of work that needs to be included in the tender pricing is listed under Appendix A - STATEMENT OF WORK: LAND MANAGEMENT PROJECT - WORK PACKAGE 1: HOUSING STOCK- RENOVATIONS AND REPAIRS (5 FARMS) L0100-0000-004 REV 1

D.1.2.10.1 Swartfontein Farm - Main House

Renovate Swartfontein Main House as stated in SoW, L0100-0000-004 Rev 1, section 5.1. Swartfontein Main House is a five (5) bedroom house with three (3) kitchens, two (2) lounges, two (2) full bathrooms with bathtub and shower, reception area and patio.

Figure 1 shows Swartfontein Main House current existing Floor Plan and Elevations layout

The building shall be inspected first for electrical and structural damages before any construction work takes place. The report shall provide detailed inspection results as well as recommendations for remedial actions to ensure the installation meets quality and safety requirements.

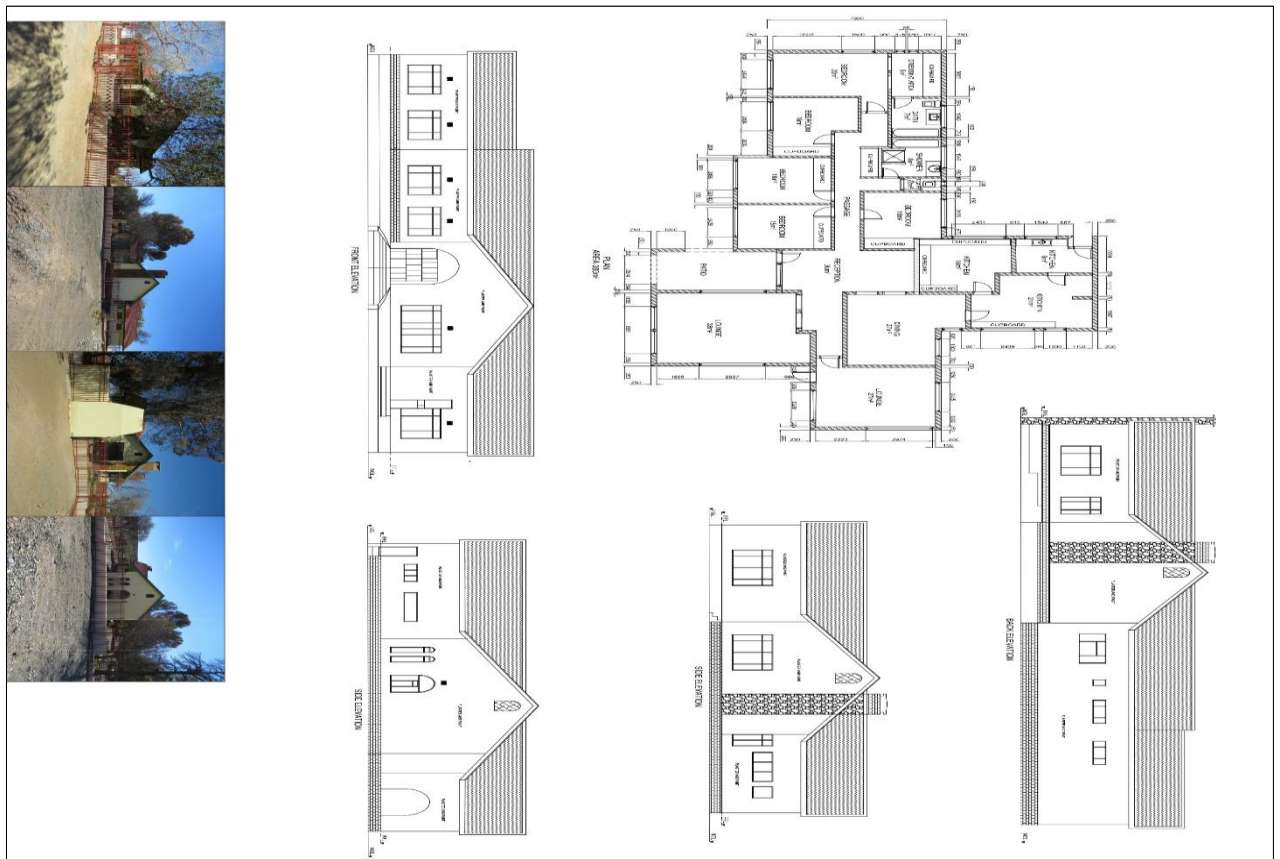
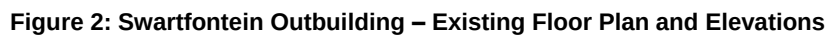


Figure 1: Swartfontein Farm Main House – Existing Floor Plan and Elevations

Renovate Swartfontein Outbuilding as stated in SoW, L0100-0000-004 Rev 1, section 5.2. Swartfontein Outbuilding was identified as the most suitable building to convert into an office space. The Swartfontein Outbuilding is located on Swartfontein farm RE496.

Figure 3 shows New Floor Plan and Elevations of Swartfontein Office (Outbuilding).



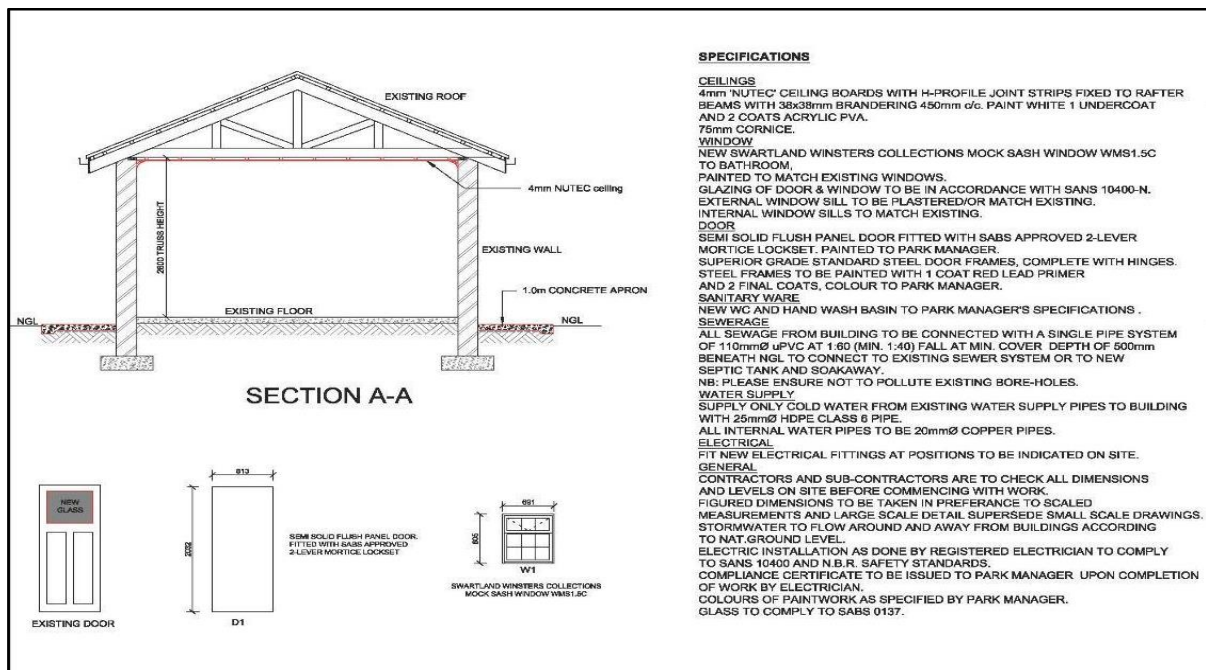


Figure 4 Swartfontein Outbuilding Section A-A MKNP-7/4/13/1/3 Rev 00

D.1.2.10. 3. SWARTFONTEIN RONDAVEL

Renovate Swartfontein Rondavel as stated in SoW, L0100-0000-004 Rev 1, section 5.3. Swartfontein Rondavel was identified as the most suitable building to convert into an accommodation. The Swartfontein Rondavel is located on Swartfontein farm RE49. Figure 4 shows Swartfontein Rondavel in its current existing state, Floor Plan and Elevations.

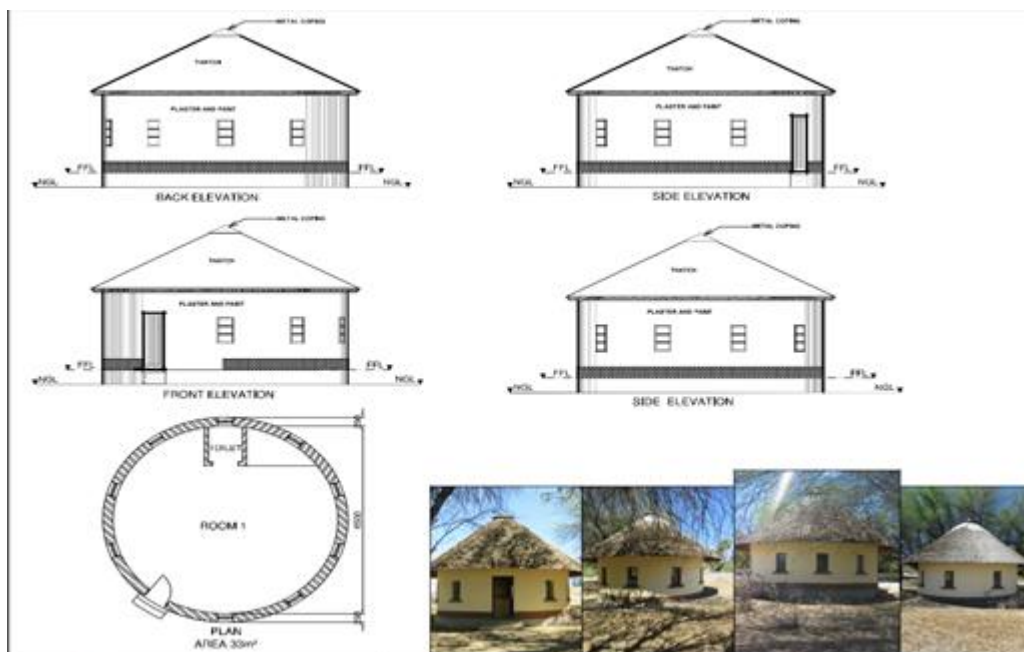


Figure 5: Swartfontein Rondavel – Existing Floor Plan and Elevations

• D.1.2.10.4 JANSEBOOM MAIN HOUSE RENOVATIONS

Renovate Janseboom Main House as stated in SoW, L0100-0000-004 Rev 1, section 5.4. Janseboom Main House is currently a four (4) bedroom house with three (3) other rooms, a lounge, kitchen, a full bathroom with a shower and sunroom. Figure 6 shows Janseboom Main House in its current existing layout, Floor Plan and Elevations.



Figure 6: Janseboom Main House - Existing Floor Plan and Elevations

D.1.2.10.5. SCHIETPOORT MAIN HOUSE RENOVATIONS

Renovate Schietpoort Main House as stated in SoW, L0100-0000-004 Rev 1, section 5.5.

Schietpoort Main House is currently a one (1) bedroom house with a lounge, kitchen, garage/shed and a full bathroom with a shower. Figure 8 shows Schietpoort Main House in its current existing layout, Floor Plan and Elevations.



Figure 7: Schietpoort Main House - Existing Floor Plan and Elevations

D.1.2.10.6. VISSERSKLOOF 1 FARM MAIN HOUSE RENOVATIONS

Renovate Visserskloof Main House as stated in SoW, L0100-0000-004 Rev 1, section 5.6.

Visserskloof Main House is currently a 4 bedroom house with a lounge, kitchen and a full bathroom with a shower. Figure 7 shows the existing Floor Plan and Elevations of Visserskloof 1 Farm Main House.



Figure 8: Visserskloof 1 Farm Main House - Existing Floor Plan and Elevations

D.1.2.10.7 JASKLOOF MAIN HOUSE RENOVATIONS

Renovate Jaskloof Main House as stated in SoW, L0100-0000-004 Rev 1, section 5.7.

Jaskloof Main House is currently a four (4) bedroom house with a lounge, kitchen and a full bathroom with a shower. Figure 8 below shows Jaskloof Main House in its current layout, Floor Plan and Elevations.



Figure 9: Jaskloof Farm Main House - Existing Floor Plan and Elevations

D.1.2.10.7.1 SCOPE OF WORK FOR LIGHTING LIST

The building shall be inspected first for electrical and structural damages before any construction work takes place. The report shall provide detailed inspection results as well as recommendations for remedial actions to ensure the installation meets quality and safety requirements.

D.1.2.10.7.2 JASKLOOF FARM MAIN HOUSE ALTERATIONS

Jaskloof Main House requires the addition of two new bedrooms to be used as SANParks Ranger Outpost accommodation. The floorplan in figure 11 below illustrates the new addition see blue spaces.

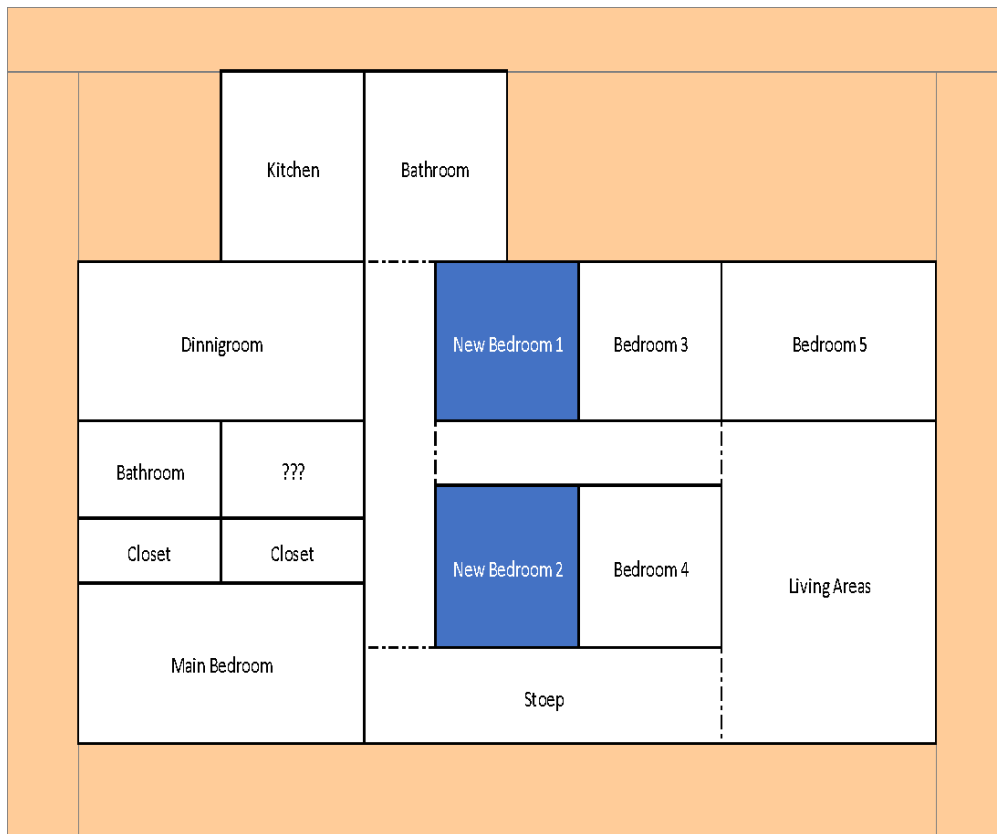


Figure 10: Jaskloof Farm Main House: New Floor Plan

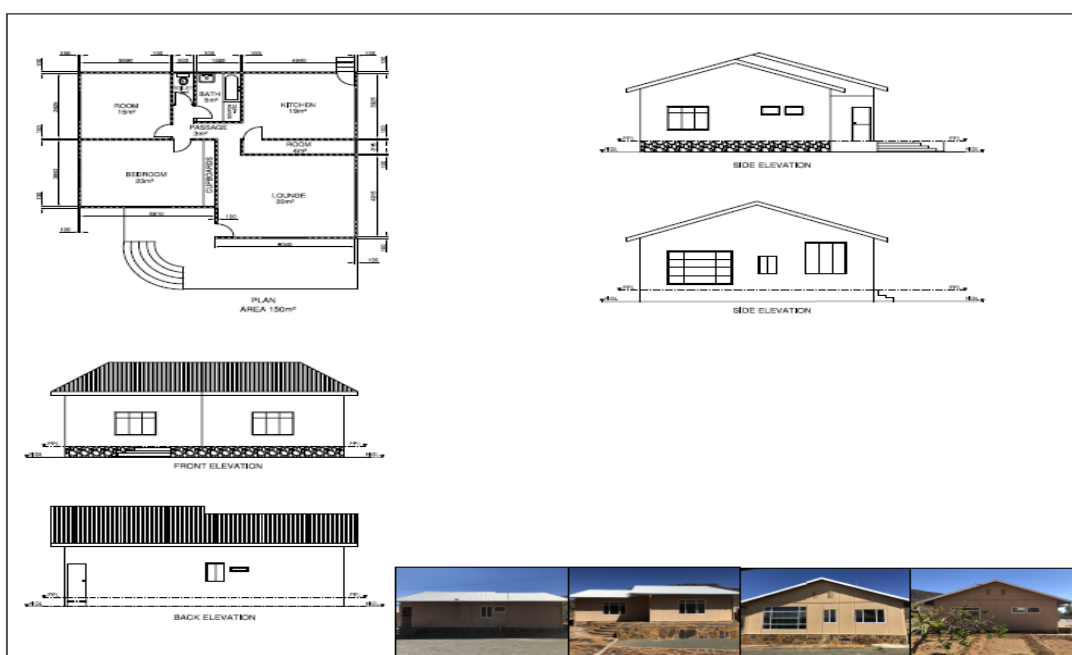


Figure 11: Jaskloof Farm Main Nutec Building - Existing Floor Plan and Elevations

D1.2.11 Deliverables

D1.2.11.1 Deliverable Documents

Table 3 below gives an overview of the documentation to be provided by the Contractor under the contract. The list below may not be exhaustive and should be read in conjunction with the requirements as set out in the Reference Design documentation. Specifically, the Contractor shall submit for review after appointment:

- Shop drawings, schematics, layout drawings, section drawings, detail drawings, elevation drawings, etc. as is required for The Client's Representative to review the Contractor's design, in electronic format (pdf) and native if requested.
- Component list including MTBF data for equipment to be procured under the Contract, as required by the Client's RAM engineering team.
- Handover documentation:
- Pro-formas of all commissioning procedures shall be submitted to The Client's Representative at least 2 weeks before the commencement of the specific activities.
- Pro-forma commissioning documentation including CoCs shall be presented to The Client for review prior to Hot Commissioning.

All Deliverable Documents shall be delivered in electronic format to SARAO Headquarters.

All deliverable documents shall be made property of SARAO according to Contract Documentation even if this is a contractual provision.

The Contractor shall, at their expense, submit to The Client for approval the drawings and documentation scheduled below.

- a) Preliminary and/or Final drawings
- b) Installation drawings

A pro forma index for the manuals is listed below to guide The Contractor. The manuals are divided into three volumes namely:

- Volume 1 for regular use,
- Volume 2 to be used once a year and
- Volume 3 for reference

Table 3: Deliverable Documents

No.	Description	Responsibility	Volume 1 of 3	Volume 2 of 3	Volume 3 of 3
1	DRAWINGS - AS BUILT				
	a. Engineers drawings: SLD, protection functional block diagrams, layouts etc.	Client			
	b. Contractors drawings: Manufacturing drawings, schematics, etc.	Contractor			
2	TESTS				
	a. Type test, routine tests and special test documentation	Contractor			
	b. FAT	Contractor			
	c. Basic tests - on site / Contractor's SAT	Contractor			
	d. Commissioning tests	Contractor			
3	CRITICAL SPARES				

	a. Contact details of Contractor	Contractor			
	b. Contact details of Service Agent	Contractor			
4	ASSESSMENTS AND PROCEDURES				
	a. Operation and Risk Assessment	Contractor			
	b. Isolation and Energisation Procedures	Contractor			
5	INSTALLATION DESCRIPTION				
	a. General Description	Contractor			
	b. Operating Instructions	Contractor			
6	ALL EQUIPMENT				
	(Geyser, RFI enclosures, Relays, Lights, Indication Lights, etc.)				
	a. Technical detail	Contractor			
	b. Technical Brochures (to be specific)	Contractor			
	c. Technical Manuals	Contractor			
	d. Installation Manuals	Contractor			
	e. Operating Manuals	Contractor			
	f. Maintenance Manuals	Contractor			
7	CONTRACTUAL CERTIFICATES				
	a. Site Hand Over Certificate	Client			
	b. Taking Over Certificates (First & Final)	Client			
	c. Fault Lists	Client			
	d. Close-out Report	Client			

D1.2.11.2 Other Contractor Undertakings

D1.2.11.2.1 Attendance at HAZOP

The Contractor shall be available to attend HAZOPs at the site or at the Client's RSA Offices and may be requested to lead the meeting.

D1.2.11.2.2 EMC Testing

With the help from SARAO the Contractor shall ensure compliance with the SKA EMI/EMC Standards and Procedures. Valid test certificates (type, routine, or special tests) proving compliance with the Control Plan emission and immunity requirements shall be provided for all equipment. Please refer to the EMC control plan [Annex 17] provided for guidance.

D1.2.11.2.3 Existing Services

The contractor will ensure no damage/impact on existing services is incurred. Example, where excavations are being carried out where there are existing underground cables, they should be done by hand. Any damage to existing services during construction will be for the contractors account and penalties (according to contract)

D1.2.11.3 Warranty and Maintenance (SARAO)

Renovations of all farm house warranty periods start when the item's installation ATR has been signed off.

D1.2.11.3.1 Warranty Procedure

When an item fails or malfunctions, the following steps shall be executed:

- A ticket was created by SARAO.
- A fault report is filled in by SARAO.
- When an item fails or malfunctions, the item is removed from site by the contractor.
- Once the item is repaired or replaced, it is again subjected to the following acceptance tests:
 - Site Installation ATP
- All of the above ATR documents are stepped-up in their revision number.
- The ticket is resolved and closed after successful installation acceptance testing.

It is tempting to complete the ATP's only partially, i.e., to only conduct the tests that seem relevant to the repair. This is not desirable, since it cannot be guaranteed that the repair (or transport) of the item did not unintentionally damage an aspect of the item that is unrelated to the repair. If the intention is to only partially complete an ATP, a waiver must be requested from SARAO, stating the rationale behind leaving out certain tests. A partially completed ATP shall not be signed off without an accompanying waiver.

The contractor shall submit a root cause analysis (RCA) report to SARAO.

D1.2.11.3.2 Warranty on Repair

A repaired item shall carry a 12-month warranty.

The supplier shall appoint a person who shall act as the project manager for the contracted renovations of all farm houses:

1. The project manager shall be responsible for delivering the contracted product to cost, schedule, and quality.
2. This person shall be the focal point for communication and as such all formal communication to/from SARAO shall be given/received to/from the project manager.

D1.2.11.4 Deliveries

D1.2.11.4.1 Delivery Address

Accepted delivery points:

Item	Delivery Address
Swartfontein Main House, Outbuilding and Rondavel, Jaskloof Main House, Schietpoort Main House, Janseboom Main House, Visserskloof Main House.	PHYSICAL ADDRESS 3: Name: "Klerfontein" SKA SA Support Base, Klerfontein Northern Cape, 8925 30°58'25.9"S, 21°59'38.9"E

D.1.2.12 CONTRACTUAL CONDITIONS

The following requirements shall form part of the particular contract data conditions C1.2.2 for this tender

CONSTRUCTION PROCESS (211 DAYS)

SARAO will follow a System Engineering (SE) process to realise the construction, test & verification and handover the works.

The SE process will be managed internally within SARAO, with technical input and assistance from the successful Bidder as and when required. Bidders must also note that SARAO has specific configuration management for projects. All documentation, including drawings, will be compiled on specific templates which will be issued to the successful Bidder. There will also be a specific numbering system which will be provided to the successful Bidder.

The progress meetings during construction will be held virtually / on site. These meetings will be held bi-weekly on a Wednesday or as agreed. The Bidders Project Manager will be responsible for keeping minutes for each meeting, including keeping up to date records of all Requests for Information for the project.

Time for Completion – Assessment and Construction Phase (211 Calendar Days excl. Defects Liability period)								
Assessment & Approvals (24 Calendar days)					Construction/Execution (187 Calendar days)			Defects Liability Period (12 months)
Contract Award (day 0)	On-site assessment (14 Calendar days)		SARAO Review & Approval (10 Calendar days)		Construction (180 Calendar days)		Audit and Handover (7 calendar days)	Maintenance and Support (365 Calendar days)

Table 4: SARAO Assessment and Construction Phase

Assessment & Approvals (24 DAYS)

- Conduct on-site assessment including review meetings (14 Calendar days);
- SARAO Review & Approval (10 Calendar days)
- The Assessment will include the submission of the following drawings to SARAO where applicable one (1) week prior to the commencement of works:
 - i) Construction Working Drawings in AutoCAD format DWG, DXF and PDF Format;
 - ii) Construction Schedule;

CONSTRUCTION/EXECUTION (180 CALENDAR DAYS)

The Construction Project Manager and design team will be responsible for executing the following construction administration role:

- Input into content of health, safety and environmental management plan review and approval prior to construction; quality assurance plan review and approval prior to construction;
- Review and approval of the construction programme including project float, critical path items, holding points and items identified critical for integration;
- Convening weekly face to face site coordination meetings with appointed sub-contractors to ensure proper coordination and integration;
- Report on progress on implementing contract participation goals, socio-economic and skills transfer development requirements as defined in the contract;
- Prepare payment valuation for SARAO assessment, submission and approval;
- Undertaking health, safety, environmental, quality assurance audits in conjunction with SARAO team;

- Ensuring that the required design disciplines are involved in inspections as applicable to their work during construction;
- Compiling bi-weekly construction progress reports addressing the construction programme, Health and Safety and Quality, Sub Contractors, Materials on Site, progress photos, plant and equipment on site, benefits register, targeted procurement goals, socio-economic and skills transfer development;
- Providing cash-flow and expenditure reports on a monthly basis to SARAO;

AUDIT and HANDOVER (7 CALENDAR DAYS)

The Construction Project Manager will be responsible for executing the following during this phase:

- Participate in Physical Configuration Audit (PCA). This audit will verify the installation against the following documents: Specification, As-built installation drawings, Tender Pricing schedule, Shop Drawings including Bill of Materials for all itemised items indicated on drawings
- Liaise with local authorities to coordinate the required inspections and issuing of the Certificate of Occupancy and Electrical Certificate of Compliance
- Taking overall responsibility for coordinating the compilation of the as-built documentation in preparation for achieving an as-built baseline (ABBL):
 - (i) As-built drawings (workshop, construction, Municipal approved, other) in PDF, dwg, dxf, Visio, etc. format both in hard copy and in soft copy. The hard copy must be signed off by the Architect/ design engineer and submitted to the SARAO;
 - (ii) All finishing schedules, samples, attic stock, etc.
 - (iii) All Certificates of Compliance which are signed off by the design engineers and the contractor;
- Lessons learnt report, Contractor to provide SARAO with a lessons learnt report including but not limited to Technical, Installation, Management, Resource, Supplier, Supply, Site and facility issues.

PERFORMANCE LEVELS

The SARAO requires the following levels of performance from the selected Bidder:

Table 5: Performance Levels

Performance Area	Required Level of Performance
<i>Completion – Assessment and Construction Phase</i>	<i>211 days</i>
On-site assessment & Approval	24 days
Construction	180 days
Audit and Handover	7 days
Completion of Defects Liability Period	12 Months

Penalties:

- Execution penalties of R 5 000 per day, to a maximum amount of 10% of the Final Contract Price will be applied should the construction contractor not meet the Required Levels of Performance defined in the Table above.

- Penalties will also be applied to non-compliance to the OHS Act, the illegal disposal of materials and downtime or delays caused by contractor related issues.
- Not reaching CLPG goals - penalties of R 15 000 per month from month 3 to a maximum of 10% of the Final Contract Price will be applied.

D.1.2.13 TARGETED PROCUREMENT

Objective:

The Employer applies and promotes the principles of Targeted Construction Procurement. It is therefore proposed that the following be actively pursued:

- The provision of opportunities for black owned Small, Medium and Micro- Business Enterprises (SMMEs).
- The provision of work opportunities for local labour.
- The maximising of job creation by adopting labour-intensive construction methods wherever feasible and economically justifiable.

Definitions

Local: Local or local area in the context of this project means, in the first instance, the towns of Carnarvon, Williston, Brandvlei and Van Wyksvlei (in Karoo Hoogland and Kareeberg District Municipalities), and then towns in the greater Northern Cape Province.

Locals: Locals has a corresponding meaning to Local, in that it refers to the inhabitants of the area designated under local.

Black designated groups: has the meaning assigned to it in section 1 of the Broad-Based Black Economic Empowerment Act Codes of Good Practice dated 11 October 2013;

Black People: has the meaning assigned to it in section 1 of the Broad-Based Black Economic Empowerment Act Codes of Good Practice dated 11 October 2013;

Contractor and Labour Participation Goals (CLPG)

It is a requirement of this contract that the Main Contractor, be it a joint venture or a consortium or a single organization must comply with the following:

- The Main Contractor must sub-contract a minimum of 20% to SMME's in the Northern Cape of the final accepted contract amount to:
 - The sub contractor (SMME's) in the construction industry with a minimum CIDB Grading level 2
 - Targeted labour will be 2% of the final accepted contract amount.

The objectives of the Employer are to:

- Preferentially employ Locals through appropriate channels to minimise the chances of an influx of non- local work seekers; and
- Optimise employment and business opportunities for local black people and black women in particular;

Employment Targets:

The number of person-hours employed in the following designated groups expressed as a percentage of the workforce person-hours for that specific designated group (including Subcontractor's personnel but excluding head office personnel) employed, shall be at least:

Skills level	Criteria	Target (%)
Unskilled labour	Black People	100
Unskilled labour	Black People (women)	20

The Contractor and Labour Participation Goals shall be deemed to be included under the Main Contractor's General Obligations costs.

Measurement of performance

The contractor's participation performance will be measured on a monthly basis to confirm the extent to which the Contractor and Labour Participation Goals (CLPG) have been achieved and the submission of a benefits register, socio-economic and skills transfer development. The benefits register, socio-economic and skill transfer development templates will be provided at the award stage. Regular returns are required from the contractor and shall be submitted with each payment certificate.

The contractor's monthly participation performance towards the CLPG will be measured monthly as follows:

Item	Description	Monthly Target (minimum)	Monthly Amount Achieved	Monthly % Variance	Overall Amount Achieved	Overall % Variance
1.	Contractor Participation Goals (20%)	20%				
2.	Targeted Labour (2%)					
2.1	Unskilled labour (Black People)	100%				
2.2	Unskilled labour (local)	80%				
2.3	Unskilled labour (Black Women)	20%				

Contractors will be required to provide proof of residence of labour employed. This may include, but is not limited to electricity and water accounts, telephone or cell phone accounts, bank statements, copies of vehicle license documents, reference from a school or church, affidavits, or other suitable evidence.

The Contractor shall submit a monthly report indicating the targets that have been met, those that have not been met and the reasons thereof. SARAO will make a determination as to whether the reasons for the variations are valid and justifiable. SARAO shall after making the determination inform the contractor of such determination and the implications thereof. Failure to reach the CLPG shall render the contractor liable for a penalty as specified in the performance levels in Table 5 of the Particular Conditions of Contract.

The Contractor and Labour Participation Goals report template shall be agreed at award stage.

D.1.2.14 SUPPORTING DOCUMENTS

Required by SARAO

All schedules as per the bid checklist and taking into account the schedule evaluation criteria provided

The following shall be electronically submitted to SARAO for the works:

- Assessment for the above scope of work
- As-built drawings for above scope of work provided in the format stated in the Particular Conditions
- All design files in all formats (Dwg, Word, Pdf, Visio, etc.) and versions
- Electrical Certificate of Compliance
- Occupancy Certificate
- Shop drawings including wiring diagrams and refrigeration/ condensate piping diagram
- Inspection record cards/checklists

Information issued to Bidders

Refer to Appendix A & B link for information.

D2: Agreements and Contract Data

Number	Heading	Pages
D2.1	Form of Offer and Acceptance	87
D2.2	Contract Data	92

D2.1. Form of Offer and Acceptance Offer

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract in respect of the following works:

BID NO: NRF/SARAO PEP6/25/2021-22 APPOINTMENT OF A CONTRACTOR TO RENOVATE AND REPAIR BUILDINGS ON FIVE FARMSTEADS TO BE USED AS RANGER OUTPOSTS BY SANPARKS IN THE NATIONAL PARK, NORTHERN CAPE FOR A PERIOD OF EIGHT MONTHS

The bidder, identified in the offer signature block below, has examined the documents listed in the tender data and addenda thereto as listed in the Schedule of Returnable Documents, and by submitting this offer has accepted the conditions of tender.

By the representative of the bidder, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance, the bidder offers to perform all of the obligations and liabilities of the contractor under the Contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the Conditions of Contract identified in the Contract Data, within the Contract Period stated below.

A) THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE ADDED TAX IS:

RAND (in words);

R (in figures)

This offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document to the tenderer before the end of the period of validity stated in the Tender Data, whereupon the bidder becomes the party named as the Contractor in the Conditions of Contract identified in the Contract Data.

SIGNED ON BEHALF OF/BY THE BIDDER:

	NAME	SIGNATURE	
	CAPACITY	DATE	

Name and Address of Organisation:

SIGNED BY WITNESS:

	NAME	SIGNATURE	DATE

Acceptance

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the Tenderer's offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the Conditions of Contract identified in the Contract Data and for the contract period offered. Acceptance of the tenderer's offer shall form an Agreement between the Employer and the Tenderer upon the terms and conditions contained in this Agreement and in the Contract that is the subject of this Agreement.

The terms of the contract are contained in:

Part D1: Scope of Work

Part D2: Agreements and Contract Data (which includes this Agreement)

Part D3: Pricing Data

and drawings and documents or parts thereof, which may be incorporated by reference into Parts D1 to D3 above.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto as listed in the Returnable Documents as well as any changes to the terms of the Offer agreed by the Tenderer and the Employer during this process of offer and Acceptance, are contained in the Schedule of Deviations attached to and forming part of this Agreement. No amendments to or deviations from said documents are valid unless contained in this schedule which must be duly signed by the authorised representative(s) of both parties.

The tenderer shall within two weeks of signing this Agreement, including the Schedule of Deviations (if any), or when or just after this Agreement comes into effect, contact the employer's implementing agent (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date of signature of this document, including the Schedule of Deviations (if any). Unless the tenderer (now Contractor) within five days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract between the parties.

SIGNED ON BEHALF OF/BY THE EMPLOYER:

	NAME	SIGNATURE	
	CAPACITY	DATE	

Name and Address of Organisation

SIGNED BY WITNESS:

NAME		SIGNATURE	DATE

Schedule of Deviations

Notes:

1. The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender.
2. A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of Offer and Acceptance, the outcome of such Agreement shall be recorded here.
3. Any other matter arising from the process of Offer and Acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the Contract shall also be recorded here.
4. Any change or addition to the tender documents arising from the above Agreements and recorded here shall also be incorporated into the final draft of the Contract.

1. Subject

Details

2. Subject

Details

3. Subject

Details

4. Subject

Details

By the duly authorised representatives signing this Schedule of Deviations, the Employer and the Tenderer agree to and accept the foregoing Schedule of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the Returnable Documents, as well as any confirmation, clarification or changes to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and Acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

Schedule of Deviations (continued)

SIGNED ON BEHALF OF/BY THE BIDDER *(only on award of Contract):*

	NAME		SIGNATURE
	CAPACITY		DATE

SIGNED BY WITNESS *(only on award of Contract):*

	NAME		SIGNATURE	DATE

SIGNED ON BEHALF OF/BY THE EMPLOYER:

	NAME		SIGNATURE
	DATE		CAPACITY

SIGNED BY WITNESS:

	NAME		SIGNATURE
			DATE

CONFIRMATION OF RECEIPT

The Bidder, (now Contractor), identified in the Offer part of this Agreement hereby confirms receipt from the Employer, identified in the Acceptance part of this Agreement, of one fully completed original copy of this Agreement, including the Schedule of Deviations (if any) today:

the (day) of (month)(year)

at (place)

SIGNED ON BEHALF OF/BY THE CONTRACTOR *(only on award of Contract):*

	NAME		SIGNATURE	CAPACITY

SIGNED BY WITNESS *(only on award of Contract):*

	NAME	SIGNATURE

D2.2. Contract Data

Part 1: Contract Data Provided by the Employer

CONDITIONS OF CONTRACT

The following contract specific data, referring to the General Conditions of Contract for Construction Works, 3rd Edition, 2015, are applicable for this Contract:

No	Clause	Description
1.	1.1.1.13	The Defects Liability Period is twelve (12) months, measured from the date of the certificate of completion.
2.	1.1.1.14	The time for achieving Due completion is eight (8) months, calculated from commencement date. There is a priority list of expected completion for which a phased delivery will be implemented.
3.	1.1.1.15	Name of the Employer is: NRF SARAO
4.	1.1.1.17	The Engineer's Representative is Yugendren Pillay
5.	1.1.1.26	The pricing strategy is a Fixed Price Contract
6.	1.2.1.2	Any written communication between the parties shall have been duly delivered if sent via email.
7.	3.2.3	The Employer's Agent shall obtain specific approval from the Employer before executing any of his functions or duties according to the following Clauses of the General Condition of Contract: 1. New Clause 3.2.3.1 "For expenditure on the Contract to exceed the Contract Price"; 2. Existing Clauses: 3.2.1 - Nomination of person as Employer's Agent's Representative. 5.6 – Approval of the programme 5.8 – Non-working times 5.12 - Granting of extension of time excluding Clause 5.12.2.2 (Abnormal climatic conditions) 5.13 - Reduction of penalty for delay. 5.14.2 - The issue of a Certificate of Practical Completion. 5.14.4 - The issue of a Certificate of Completion. 5.16.1 - The issue of a Final Approval Certificate. 6.3 – Variations in respect of Variations which are not small (R15 000) 6.6 - Instruction to expend on Provisional and Prime Cost Sums 6.11 - Adjustment of General Items & Approval of Claims 8.2.2.2 - Order to repair and make good damage arising from any "excepted" risk.
8	3.2.4	Occupational Health, Safety – Public Health and the duly appointed H&S Officials has to be appointed by the contractor as Client Agents on this contract, in terms of Clause 4(5) of the Construction Regulations, 2014 as promulgated in terms of Section 43 of the Occupational Health and Safety Act, 1993. The Principal Contractor shall perform a preliminary assessment of the project generated H&S plan and submit such to Occupational Health, Safety & Wellness – Public Health for legal compliance reassessment & verification / approval prior to any works commencing. The duly appointed H&S Officials will be responsible for further monitoring and the auditing of the approved H&S plan for legal compliance.
9.	4.4.2.	Add the following to Clause 4.4.2 If, however, any of the appointed subcontractors are found to be unreliable, unreasonable or unreasonably priced, the contractor may motivate the client to have the subcontractor replaced or the subcontracting percentage reviewed.
9.	5.3.1	The documentation required prior to the Commencement of the works are: - Health and safety File - Initial Programme - Insurance - Project Team
10.	5.4.2	The access and possession of Site shall not be exclusive to the Contractor but as set out in the Site Information. The Contractor shall bear all costs and charges for special and temporary rights of way required by him in connection with access and movements on the sites in respect of EMC requirements.

11.	5.8.1.5	The cost of supervision by the Employer's Agent or his representatives outside of normal (Monday to Saturday (12:00)) working hours in accordance with this Clause, shall be to the Contractor's Account.
12.	5.12.5	Add the following to Clause 5.12 5.12.5 Critical Path Provision A delay in so far as extension of time is concerned, will be regarded as a delay only if, on a claim by the Contractor in accordance with the General Conditions of Contract, the Employer's Agent rules that all progress on an item or items of work on the critical path of the approved programme for the execution of the Works by the Contractor, has been brought to a halt. Delays on normal working days only, based on a working week of five normal working days, will be taken in account for the extension of time.
13.	5.13.1	The penalty for failing to complete the works is R5000 per calendar day up to a maximum of 10% of the Contract Value.
14.	5.16.3	The latent defect period is 18 months
15.	6.2.1	The performance guarantee to be provided by the contractor is ten per cent (10%) of the contract sum
16.	6.2.3	The contractor shall ensure that the performance guarantee remain valid and enforceable until the issue of the Certificate of Completion
17.	6.10.1.5	The percentage advance on materials on site not yet built into Permanent works is 70%.
18.	6.10.6.2	Replace Clause 6.10.6.2 with the following new Clause 6.10.6.2: 6.10.6.2 No interest shall be payable to the Contractor upon any money retained or overdue in terms of the Contract.
19.	8.6	Replace Clause 8.6 with the following new Clause 8.6 Insurance Management The Contractor at their own cost in terms of Clause 8.6 effect and maintains the insurances listed below in the joint names of the NRF and the contractor. The NRF as the Client requires proof of the following insurances. 1. Contract Works insurance The minimum amount of cover for insurance against loss of or damage to the works Plant, Materials and Equipment. Value remains subject to tender but the recommended insurance sum is: R5 million. A coupon policy for Special Risks insurance issued by SASRIA must also be provided. 2. Public Liability Insurance The minimum amount of cover for insurance against loss of or damage to property (except the works, Plant and Materials and Equipment) and liability for bodily injury to or death of a person (not an employee of the Contractor) arising from or in connection with the Contractor Providing the Works. The limit of indemnity for Public Liability Insurance must be R5 million or 5% of contract value whichever is greater. 3. Special Insurances In addition to the insurances required above, the following must be in place in the Contractors' name: Personal Accident: The minimum amount of cover for insurance against death of or bodily injury to employees of the Contractor arising out of and in the course of their employment in connection with the contract for any one event is as prescribed by the Compensation for Occupational Injuries and Diseases Act No. 130 of 1993 and the Contractor's common law liability for people falling outside the scope of the Act.
20.	10.1.1.1.1	Add the following to Clause 10.1.1.1.1 Should the claim be related to work stoppages by either the EMEs or the local community, no extension of time will be granted without a South African Police Service case number for threats or intimidation against the parties involved.
21.	10.3.2	Amicable settlement in terms of Clause 10.4 shall be contemplated for all disputes prior to referring any dispute to Adjudication or Arbitration.
22.	10.5.3	The number of Adjudication Board Members to be appointed one (1).
23.	10.7.1	The determination of disputes which are unresolved in terms of Clause 10.5.3 shall be by Arbitration.

Part 2: Data Provided by the Contractor

Clause 1.2.1: Delivery of Notices

The name of the Contractor is

The address of the Contractor is

Physical Address	Postal Address
Telephone:	Fax:
Email:	

SIGNED ON BEHALF OF/BY THE TENDERER:

	NAME	SIGNATURE	
CAPACITY		DATE	

D3: Pricing Data

Number	Heading	Pages
D3.1	Pricing Instructions	96
D3.2	Bill of Quantities	97

D3.1 Pricing Instructions

1. **Only fixed and firm prices will be accepted.** Non-fixed and firm prices (including prices subject to rates of exchange variations) will not be considered.

Note:

The bidder MUST inspect the Site/Building and familiarize themselves with the required scope of work to ensure all the necessary measurements are undertaken and that all required materials, equipment, resources, etc., is included in their FIXED PRICE.

2. Price quotes are fully **inclusive** of all costs including delivery to the specified NRF site; Value Added Tax (VAT) and other taxes (this includes all disbursement and travel costs) and Consumer Price Adjustment (CPA) per annum.
3. A full breakdown of costs, including the detailed pricing schedules (Annexure A), contingencies, professional fees, travel and disbursements must be in format as set out below and, where applicable, in supporting schedules and provided.
4. The completed detailed pricing schedule shall form part of this tender submission and will be completed in **black ink or black type only**.
5. The Conditions of Contract, the Contract Data and the Scope of Work shall be read in conjunction with the Pricing Schedule.
6. Bid price in South African currency, foreign exchange risk is for the account of the bidder.
7. It will be assumed that prices included in the Pricing Schedules are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date of bids (refer to www.stanza.org.za or www.iso.org for information on standards).
8. All costs associated with compliance to the Occupational Health and Safety Act, the National Environmental Management Act and the Water Act must be included in the bidding price where applicable.
9. Where a particular make of item is specified, the words "or similar approved" shall mean approval by the client in writing
10. It will be assumed that prices included in the Bill of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date of bids (refer to www.stanza.org.za or www.iso.org for information on standards).
11. **All costs associated with compliance to the Occupational Health and Safety Act, the National Environmental Management Act and the Water Act must be included in the bidding price where applicable.**
12. SARAO reserves the right to reject over-priced bids. Please note lowest price bids does not guarantee selection, consideration will be given to the full evaluation criteria

D3.2 Bill of Quantities

Item No	Description	Unit	Qty	Rate	Amount
	SECTION 1: PRELIMINARY AND GENERAL				
	BILL No. 1				
	PRELIMINARY AND GENERAL				
	(APPLICABLE TO ALL FIVE (5) FARMS- SWARTFONTEIN FARM, JANSEBOOM FARM, SCHIETPOORT FARM, VISSERSKLOOF FARM, JASKLOOF FARM)				
	FIXED CHARGE ITEMS				
1/1/1	Contractual Requirements	SUM			
	Establishment of Facilities on the Site				
	Facilities for Engineer				
1/1/2	Furnished Offices	SUM			
1/1/3	Name boards (1 per site/building)	SUM			
	Facilities for Contractor				
1/1/4	Offices and storage sheds	SUM			
1/1/5	Living accommodation	SUM			
1/1/6	Ablution and latrine facilities	SUM			
1/1/7	Tools and equipment	SUM			
1/1/8	Water supplies, electric power, communications and access	SUM			
1/1/9	Dealing with water connections and meters	SUM			
1/1/10	Dealing with electrical connections and meters	SUM			

	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
1/1/11	Access	SUM			
1/1/12	Plant	SUM			
1/1/13	Concrete Tests	SUM			
1/1/14	Comply with Health and Safety Specifications	SUM			
1/1/15	Complying with SKA Integrated Environmental Management Plan and all other statutory environmental requirements	SUM			
1/1/16	Complying with SARAO Radio Frequency Interference (RFI) policy requirements. (RFI Manager may be consulted for more information)	SUM			
1/1/17	Security for the works for duration of the contract	SUM			
1/1/18	Removal of site establishment	SUM			
1/1/19	Other fixed charge obligations	SUM			
Total PRELIMINARY AND GENERAL(Excl VAT) total carried to Final Summary		R			

Item No	Description	Unit	Quantity	Rate	Amount
	SECTION 2: SWARTFONTEIN FARM - MAIN HOUSE				
The contractor shall carry out the work in compliance with South African National Standards, adhere to SARAO RFI policies and with minimal disruption to the SARAO Site Complex					
Note: All rates amounts to be inclusive of all Material, Labour and indirect cost for the required work					
The Tenderer must inspect the Site/Building and familiarize themselves with the required scope of work to ensure all the necessary materials, equipment and resources is including in their fixed price					
	ALTERATIONS				
	REMOVAL OF EXISTING WORK				
2/1/1	Take out and remove existing carpets	m ²	212		
2/1/2	Take out and remove existing floor tiles	m ²	65		
2/1/3	Hack-off and remove existing wall tiles	m ²	68		
2/1/4	Take down and remove existing ceiling	m ²	63		
2/1/5	Take down and remove existing cornice	m	79		
2/1/6	Carefully take out and remove counter-tops for existing Kitchen cupboards and prepare to receive new (New measured elsewhere)	m	15		
2/1/7	Remove existing sanitary fittings and make good WHB	No	2		
2/1/8	Remove existing sanitary fittings and make good WC	No	2		
2/1/9	Remove existing sanitary fittings and make good - Bathtub	No	2		
2/1/10	Remove existing sanitary fittings and make good - Shower	No	1		

	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	CARPENTRY AND JOINERY				
2/1/11	32mm Formica life seal post formed countertop moisture resistance fixed to existing kitchen cupboards	m	15		
	CEILING				
	Install 4mm "NUTEC" ceiling boards with H-Profile joints strips fixed to rafter beams with 38x28mm brandering 450mm c/c				
2/1/12	In kitchens and Bedroom	m ²	63		
2/1/13	75mm "Rhino" gypsum plasterboard cornices, sealed with white polyurethane sealant	m ²	79		
	METALWORK				
2/1/14	Galvanized steel burglar bars to existing windows	m ²	53		
	ROOFING				
2/1/15	"Aerolight Thermal insulation" 100mm Insulation closely fitted and laid on top of brandering between roof timbers etc. (Provisional)	m ²	63		
2/1/16	'Allow waterproofing for the existing leaking roof structure as per architect specification	m ²	63		
	TILING				
	Lay 350 x 350mm Ceramic wall floor tiles (PC amount of R85/m ²) non-slip with 3mm joints complete and laid with tile adhesive as recommended by tile manufacturer on existing screed to suit required level. Finish all joints with approved waterproof grout. Use SARAO approved selected tiles				
2/1/17	On internal floors: Toilet, Shower, Bathroom, Kitchen and Patio	m ²	81		

2/1/18	On internal floors: Toilet, Shower and Bathroom	m ²	68		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	FLOOR COVERING				
	6mm laminated timber and "Formica" finished tongued-and-grooved strip floors with cushion backing, including polyethylene damp-proof sheeting				
2/1/19	On internal floors: Bedrooms, Lounges, Passages, Dining, Reception and Dressing Area	m ²	212		
	PLUMBING AND DRAINAGE				
	SANITARY FITTINGS				
2/1/20	Wash hand basin including all fittings such as taps, traps, pipes and stopcocks	No	2		
2/1/21	Water closet complete with all fittings such as cistern, seat, flushing mechanism, stopcock and pan connectors	No	2		
2/1/22	Toilet roll holders - anti-theft	No	2		
2/1/23	5mm Silvered float glass copper backed mirrors holed for and fixed with chromium plated dome capped mirror screws: Mirror 600 x 450mm high	No	2		
2/1/24	Soap holders	No	3		
2/1/25	Shower Set including all fittings such as traps and pipes	No	1		
2/1/26	Towel holders	No	2		
2/1/27	Bathtub	No	2		
	PAINTWORK				
	PAINT TO NEW WORK				

2/1/28	One coat undercoat and two coats 'Polyurethane Enamel' paint on galvanised steel burglar bars to existing windows	m ²	53		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	PREPARATORY WORK TO EXISTING WORK				
	Previously painted plastered surfaces: Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				
	ON FLOATED PLASTER				
	Remove any loose and flaking residue by means of wire brushing, wash with 'Sugar Soap' or weak spirits of salts, open up cracks and make good filler sanded smooth apply one coat alkali resistant primer and two coats acrylic emulsion paint on existing enamel paint based surfaces: Colour to be selected by SARAO				
2/1/29	On internal walls	m ²	642		
2/1/30	On external walls	m ²	264		
	ON METAL				
	Prepare surfaces and remove all loose material, dust, grease, salts and contamination with 'Degreaser GR1', rinse and apply one coat red led primer, apply one coat undercoat and two coats 'Polyurethane Enamel' paint on galvanised steel or aluminium: Colour to be selected by SARAO				
2/1/31	On existing internal and external steel door frames	m ²	32		
2/1/32	On existing steel window frames	m ²	15		

	ON WOOD				
	Sand down and prepare wood surfaces and apply one coat 'Oil Wood Primer', one coat undercoat and two coats 'Gloss Enamel' paint:				
2/1/33	On existing internal doors	m ²	44		
2/1/34	On existing external doors	m ²	7		
SWARTFONTEIN FARM - MAIN HOUSE (Excl VAT) carried to Final Summary				R	

Item No	Description	Unit	Qty	Rate	Amount
SECTION 3: SWARTFONTEIN FARM - OFFICE					
The contractor shall carry out the work in compliance with South African National Standards, adhere to SARAO RFI policies and with minimal disruption to the SARAO Site Complex					
Note: All rates amounts to be inclusive of all Material, Labour and indirect cost for the required work					
The Tenderer must inspect the Site/Building and familiarize themselves with the required scope of work to ensure all the necessary materials, equipment and resources is including in their fixed price					
Refer to drawing No. MKNP - 7/4/13/1/3 Rev0 & MKNP - 7/4/13/1/2 Rev00					
	ALTERATIONS				
	REMOVAL OF EXISTING WORK				
3/1/1	Breaking down, removing and forming openings through 110mm internal brick walls and making good plaster on both sides and floor to receive finish.	m ²	7		
3/1/2	Hack-up and removing floor screed	m ²	1		
3/1/3	Take out existing gutters/downpipes (New elsewhere measured)	m	31		
3/1/4	Chop/cut out 500mm wide concrete floor from the edge of the bearing existing walls (only the section to be thickened)	m	2		
3/1/5	Break up and removing concrete steps	No	1		

3/1/6	Remove existing sanitary fittings and make good - Bathtub	No	1		
3/1/7	Remove existing sanitary fittings and make good - WHB	No	1		
3/1/8	Remove existing sanitary fittings and make good - WC	No	1		
3/1/9	Take out and remove existing window size 1000 x 1500 (Brick-up measured elsewhere)	No	1		
3/1/10	Remove door 900 x 2100mm and brick-up opening and form opening to fit new window size 691 x 805mm (Brick-up and new window elsewhere measured)	No	1		
	FOUNDATIONS				
3/1/11	500 x 500mm 25MPa/19mm Reinforced concrete slab thickening for 110mm new internal brick wall for the storeroom including necessary dowels and reinforcement	m ³	1		
3/1/12	Allowance for concrete patching	m ²	1		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	SUPERSTRUCTURE				
3/1/13	Brickwork of NFP 14MPa bricks in class II mortar: 110mm internal brick wall including necessary anchor transfers/wall ties, sealant, backer rod and compressible filler	m ²	7		
3/1/14	Brickwork of NFP 14MPa bricks in class II mortar: 270mm external brick wall including necessary anchor transfers/wall ties (close-up for openings)	m ²	4		
3/1/15	150mm Wide reinforcement built in horizontally	m	16		
3/1/16	110 x 75mm Pre-stressed fabricated lintels in lengths not exceeding 3m on the new door	m	1		
3/1/17	150 mm Wide sill set sloping and slightly projecting	m	1		
	Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs				
3/1/18	15 x 225mm Wide sills set flat and slightly projecting for the new window	m	1		
	ROOFING				

3/1/19	"Aerolight Thermal insulation" 100mm Insulation closely fitted and laid on top of branderling between roof timbers etc. (Provisional)	m²	50		
3/1/20	Allow waterproofing for the existing roof structure as per required specification	m²	50		

	CARPENTRY AND JOINERY				
	DOORS, WINDOWS, ETC				
3/1/21	Semi solid flush panel door 813 x 2032mm high to be fitted with SABS approved 2-lever mortice lockset with superior grade steel frame complete with hinges: On 110mm internal wall	No	1		
3/1/22	New Swartland Winters 691 x 805mm high wooden framed window with obscure glass	No	1		
	CEILING				
3/1/23	Install 4mm "NUTEC" ceiling boards with H-profile joint strips fixed to rafter beams with 38x28mm branderling 450mm c/c	m²	50		
3/1/24	75mm "Rhino" gypsum plasterboard cornices, sealed with white Polyurethane sealant	m	52		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	METALWORK				
3/1/25	0,6mm Galvanised sheet steel gutters and rainwater/downpipes with powder coated finish on outside	m	31		
3/1/26	Galvanised pressed steel door frame for single door 813 x 2032mm high - New internal door	No	1		
	PLASTERING				
3/1/27	Cement plaster on brickwork to a smooth finish: On internal walls	m²	14		
3/1/28	Cement plaster on brickwork to a scratched textured finish: On external walls (patches)	m²	4		
3/1/29	Cement plaster on internal and external brickwork: On new window sill to match the existing	m²	1		

	TILING				
	Lay 350 x 350mm Ceramic wall floor tiles (PC amount of R85/m ²) non-slip with 3mm joints complete and laid with tile adhesive as recommended by tile manufacturer on existing screed to suit required level. Finish all joints with approved waterproof grout. Use SARAO approved selected tiles				
3/1/30	On internal floors	m ²	41		
3/1/31	On door landing/steps	m ²	2		
	GLAZING				
3/1/32	New size 600 x 600mm high glazing fixed on existing external door with 6mm Obscure glass	m ²	0.4		
	PLUMBING AND DRAINAGE				
	RAINWATER DISPOSAL				
	Domestic Ogee profile aluminium				
3/1/33	125 x 85 x 0.6mm thick gutters	m	22		
3/1/34	75 x 50 x 0.6mm thick downpipe	m	8		
3/1/35	Extra over for 125 x 85 x 0.6mm box gutter for stopped end	No	2		
3/1/36	Extra over gutter for angle	No	4		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
3/1/37	Extra over gutter for outlet for 150 mm diameter pipe	No	2		
3/1/38	Extra over rainwater pipe for shoe	No	2		
	Sanitary fittings including all piping, waste unions, traps, etc complete. (Plug and play)				
3/1/39	510 x 405 mm "Daisy" 7061 lavatory basin on 57150 floor mounted pedestal including all fittings such as taps, traps, pipes and stopcocks	No	1		

3/1/40	"Hibiscus" 772602 close-coupled water closet suite comprising pan with double flap heavy duty double flap white wooden seat and matching 9 litre cistern complete with all fittings such as cistern, seat, flushing mechanism, stopcock and pan connectors	No	1		
3/1/41	Install toilet roll holders - anti-theft	No	1		
3/1/42	Install 5mm Silvered float glass copper backed mirrors holed for and fixed with chromium plated dome capped mirror screws: Mirror 600 x 450mm high	No	1		
	PAINTWORK				
	PAINT TO NEW WORK				
3/1/43	One coat alkali resistant primer and two coats acrylic emulsion paint: On internal new walls	m ²	10		
3/1/44	One undercoat and two coats of acrylic PVA paint: On ceiling and cornice	m ²	67		
3/1/45	One coat wood primer and two coats "Velvagro" paint: On new door	m ²	3		
3/1/46	One undercoat and two coats of acrylic PVA paint: On new window sills to match the existing	m ²	1		
3/1/47	One coat red led primer, apply one coat undercoat and two coats 'Polyurethane Enamel' paint on galvanised steel: On gutters and downpipes	m ²	16		
3/1/48	One coat wood primer and two coats "Velvagro" paint: On new window frame to match the existing	No	1		
	PREPARATORY WORK TO EXISTING WORK				
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				

	Previously painted plastered surfaces: Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				
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	ON FLOATED PLASTER				
	Remove any loose and flaking residue by means of wire brushing, wash with 'Sugar Soap' or weak spirits of salts, open up cracks and make good filler sanded smooth apply one coat alkali resistant primer and two coats acrylic emulsion paint on existing enamel paint based surfaces: Colour to be selected by SARAO				
3/1/49	On internal walls	m ²	127		
3/1/50	On external walls	m ²	73		
3/1/51	On all internal and external window and sills	m ²	7		
	ON FIBRE-CEMENT				
3/1/52	One coat primer and two coats acrylic paint: On fascia boards	m ²	22		
	ON METAL				
	Prepare surfaces and remove all loose material, dust, grease, salts and contamination with 'Degreaser GR1', rinse and apply one coat red led primer, apply one coat undercoat and two coats 'Polyurethane Enamel' paint on galvanised steel or aluminium: Colour to be selected by SARAO				
3/1/53	On existing steel door frames	m ²	9		
	ON WOOD				
	Sand down and prepare wood surfaces and apply one coat 'Oil Wood Primer', one coat undercoat and two coats 'Gloss Enamel' paint:				
3/1/54	On existing wooden window frames	m ²	2		
3/1/55	On external roof timbers at eaves and verges (Provisional)	m ²	20		

	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	ELECTRICAL INSTALLATION				
3/1/56	Ceiling mounted light in the bathroom - all lights (NB: Globes must be LED'S)	No	1		
3/1/57	Vapour and waterproof wall mounted light 220mm above F.F.L with day/night switch	No	1		
3/1/58	Waterproof double tube fluorescent 1500mm long	No	4		
3/1/59	Single lever light switch 1200mm above F.F.L	No	1		
3/1/60	Double lever light switch 1200mm above F.F.L	No	2		
3/1/61	Double socket 15AMP wall plug at 300mm A.F.F.L	No	3		
3/1/62	Flush mounted distribution board in one section (uninterruptible power) with door, with 60A earth leakage, three 30A, one 20A, two 15A, two 10A and two 5A circuit breakers and space for space for two additional circuit breakers, colour coded and installed in recess (elsewhere) in brick wall	No	1		
3/1/63	Allow electrical cables for electrical supply	Item	1		
3/1/64	Allow for general attendance		%		
	TESTING AND COMMISSIONING OF WORK				
3/1/65	Allow for testing, balancing and commissioning the complete electrical installation and liaison with SKA SA site representative	Item	1		
3/1/66	Contractor to supply Certificate of Compliance for all electrical work performed from a registered electrician	No	1		
	SITE WORKS				
3/1/67	1m wide 20Mpa Concrete apron, 75mm thick around the building with construction joints at 3m c/c max.	m ²	35		
	SEWAGE SYSTEM				

	Refer to Services Specification document and Installation Instructions for all Sewer Installations				
	Supply, excavate, lay, joint, bed and test the following sewer pipeline:				
3/1/68	110mm Ø uPVC Class 34 pipe (Provisional)	m	20		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	Supply, handle and install uPVC specials with integral sockets to allow for connections onto new Conservancy Tanks:				
3/1/69	110mm Ø Y-junction with double sockets	No	4		
3/1/70	110mm Ø x 45° bend with double sockets	No	4		
3/1/71	110mm Ø x 90° bend with double sockets	No	2		
3/1/72	110mm Ø Soil and Vent Horn Access Heel Bend	No	2		
3/1/73	110mm Ø Soil And Vent Plain 87.5 Degree Junctions	No	2		
3/1/74	110mm Ø Air Vent	No	2		
3/1/75	50mm Ø Air Vent	No	2		
3/1/76	Precast Gully with P-trap complete	No	2		
	WATER SUPPLY				
	CONSERVANCY TANKS				
	Supply, install and commission Conservancy Tanks, complete with all pipework, as to Manufacturer's installation instructions. Refer to Drawing No. GEN-200/03/1/01				

3/1/77	5000L Prefabricated" plastic conservancy tanks	No	2		
3/1/78	Testing of NEW INSTALLATION OF Sewer system	Item	1		
3/1/79	Allow for the supply for cold water only from existing water supply pipes to the building with 25mm diameter HDPE class 6 pipe, 20mm diameter internal water copper pipes including closest water point, including excavations, pipes, fittings and stopcock		%		
3/180	Allow for general attendance				
SWARTFONTEIN FARM - OFFICE (Excl VAT) carried to Final Summary				R	

Item No	Description	Unit	Qty	Rate	Amount
	SECTION 4: SWARTFONTEIN FARM - RONDAVEL				
The contractor shall carry out the work in compliance with South African National Standards, adhere to SARAO RFI policies and with minimal disruption to the SARAO Site Complex					
Note: All rates amounts to be inclusive of all Material, Labour and indirect cost for the required work					
The Tenderer must inspect the Site/Building and familiarize themselves with the required scope of work to ensure all the necessary materials, equipment and resources is including in their fixed price					
	ALTERATIONS - REMOVAL OF EXISTING WORK				
4/1/1	Break and remove broken glazing on existing windows and prepare to receive new (New measured elsewhere)	No	4		
4/1/2	Remove existing sanitary fittings and make good - WHB	No	1		
4/1/3	Remove existing sanitary fittings and make good - WC	No	1		
4/1/4	Take out and remove existing external door and prepare to receive new (New measured elsewhere)	No	1		
4/1/5	Remove existing thatch roof and prepare to receive new (New measured elsewhere)	Item	1		
	ROOFING				
150mm Thick thatch of hand cut grass of the hyparrhenia species in lengths varying from 760 to 1020mm laid in bundles of suitable size, compacted to a minimum density of 30kg/m ² /150 mm thickness and fixed by means of suitable fixing rods interlaced through and over the bundles at not exceeding 600mm centres and secured with tarred twine to and including eucalyptus battens CCA treated in accordance with SANS 457-2, varying in diameter from 20 to 40mm, spaced at maximum 300mm centres generally and at closer centres nearer to eaves, including a fire-retardant interlay of multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 272g/m ² and a Class I fire rating in accordance with SANS 0177-3. SARAO to approve.					
4/1/6	Allow for new thatch roof installation	Item	1		
	CARPENTRY AND JOINERY				
	DOORS, ETC				
4/1/7	44mm Framed batten wrought Meranti door 813 x 2032mm high of 44 x 107mm top rail and stiles, 22 x 107mm middle ledge and braces and 22 x 219mm bottom rail filled in with 107mm V-jointed one side boarding: On external wall	No	1		
	TOTAL CARRIED FORWARD				

	TOTAL BROUGHT FORWARD				
	TILING				
	350 x 350mm Ceramic floor tiles (PC amount of R85/m²) non-slip with 3mm joints complete and laid with tile adhesive as recommended by tile manufacturer on existing screed to suit required level. Finish all joints with approved waterproof grout. SARAO to approve selected tiles.				
4/1/8	On internal floors: Toilet	m²	5		
	FLOOR COVERING				
	6mm laminated timber and "Formica" finished tongued-and-grooved strip floors with cushion backing, including polyethylene damp proof sheeting				
4/1/9	On internal floors: Room 1	m²	28		
	GLAZING				
4/1/10	New size 600 x 680mm high glazing fixed on windows window frames	m²	2		
	PLUMBING AND DRAINAGE				
	SANITARY FITTINGS				
4/1/11	Wash hand basin including all fittings such as taps, traps, pipes and stopcocks	No	1		
4/1/12	Water closet complete with all fittings such as cistern, seat, flushing mechanism, stopcock and pan connectors	No	1		
4/1/13	Toilet roll holders - anti-theft	No	1		
4/1/14	5mm Silvered float glass copper backed mirrors holed for and fixed with chromium plated dome capped mirror screws: Mirror 600 x 450mm high	No	1		
	PAINTWORK				
	PAINT TO NEW WORK				
4/1/15	One coat wood primer and two coats "Velvagro" or equivalent paint: On new door	m²	3		
	TOTAL CARRIED FORWARD				

	TOTAL BROUGHT FORWARD				
	PREPARATORY WORK TO EXISTING WORK				
	Previously painted plastered surfaces: Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				
	ON FLOATED PLASTER				
	Remove any loose and flaking residue by means of wire brushing, wash with 'Sugar Soap' or weak spirits of salts, open up cracks and make good filler sanded smooth apply one coat alkali resistant primer and two coats acrylic emulsion paint on existing enamel paint based surfaces: Colour to be selected by SARAO				
4/1/16	On internal walls	m ²	66		
4/1/17	On external walls	m ²	47		
4/1/18	On all internal and external window and sills	m ²	9		
	ON METAL				
	Prepare surfaces and remove all loose material, dust, grease, salts and contamination with 'Degreaser GR1', rinse and apply one coat red led primer, apply one coat undercoat and two coats 'Polyurethane Enamel' paint on galvanised steel or aluminium: Colour to be selected by SARAO				
4/1/19	On existing internal and external steel door frames	m ²	4		
4/1/20	On existing steel window frames	m ²	2		
	ON WOOD				
	Sand down and prepare wood surfaces and apply one coat 'Oil Wood Primer', one coat undercoat and two coats 'Gloss Enamel' paint:				
4/1/21	On existing internal door	m ²	3		
	SEWAGE SYSTEM				
	<i>The sewage system is connected to the Office newly installed system - Refer to Services Specification document, Section 2 Swartfontein Office Pricing Schedule and Installation Instructions for all sewer installation/connections.</i>				

SWARTFONTEIN FARM - RONDAVEL (Excl VAT) carried to Final Summary	R	
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Item No	Description	Unit	Qty	Rate	Amount
	SECTION 5: JANSEBOOM FARM - MAIN DWELLING				
	The contractor shall carry out the work in compliance with South African National Standards, adhere to SARAO RFI policies and with minimal disruption to the SARAO Site Complex				
	Note: All rates amounts to be inclusive of all Material, Labour and indirect cost for the required work				
	The Tenderer must inspect the Site/Building and familiarize themselves with the required scope of work to ensure all the necessary materials, equipment is resources is including in their fixed price				
	Refer to drawing No. L0100-3000-001 - Rev 01				
	ALTERATIONS				
5/1/1	Carefully take out and remove existing kitchen cupboards and prepare to receive new (New measured elsewhere)	No	26		
5/1/2	Remove existing sanitary fittings and make good - WHB	No	1		
5/1/3	Remove existing sanitary fittings and make good - WC	No	1		
5/1/4	Remove existing sanitary fittings and make good - Bathtub	No	1		
5/1/5	Remove existing sanitary fittings and make good - Shower	No	1		
	CARPENTRY AND JOINERY				
	JOINERY FITTINGS				
	When using the following system of measuring cupboard fittings a detailed specification must either be incorporated on the detail drawings of the cupboards or included here				
	General				
	The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking,				

	planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork and paint or varnish finishes				
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	Kitchen cupboards,etc.				
51/6	Wall cupboard type 4000 x 580 x 450mm high with top, sides, bottom, division, shelf, back and single hinged door	No	2		
5/1/7	Floor cupboard type 4000 x 580 x 600mm high with top, sides, bottom, division, shelf, back and single hinged door, dividing framework, drawers and countertops	No	2		
5/1/8	Broom wall cupboard type 600 x 580 x 2000mm high with top, sides, bottom, back and single hinged door	No	1		
	METALWORK				
5/1/9	Steel Double Curtain Track	m	15		
	PLUMBING AND DRAINAGE				
	KITCHEN FITTINGS				
5/1/10	Grade 430 stainless steel double bowl sink and drainer size 1160 x 460mm with tiling key, 40mm chromium plated flanged outlets and waste unions, vulcanite or rubber plugs, chromium plated chains and stays, 40mm rubber resealing P-trap with extension piece and clamped connections and 15mm heavy pattern chromium plated brass wall type sink mixer with swivel spout and wall flanges	No	1		
	TAPS, VALVES, ETC				
	"Chromium Plated"				
5/1/11	15mm Angle regulating valve and 350mm long flexible connection pipe (provisional)	No	2		
5/1/12	22mm Shut-off valve	No	1		
5/1/13	Single hole counter mounted sink mixer with a swivel spout and the reach is 167mm	No	1		
	SANITARY FITTINGS				
5/1/14	Wash hand basin including all fittings such as taps, traps, pipes, stopcocks etc.	No	1		

5/1/15	Water closet complete with all fittings such as cistern, seat, flushing mechanism, stopcock and pan connectors	No	1		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
5/1/16	Toilet roll holders with anti-theft	No	1		
5/1/17	5mm Silvered float glass copper backed mirrors holed for and fixed with chromium plated dome capped mirror screws: Mirror 600 x 450mm high	No	1		
5/1/18	Shower set including all fittings such as traps and pipes	No	1		
	PAINTWORK				
	PREPARATORY WORK TO EXISTING WORK				
	Previously painted plastered surfaces: Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				
	ON FLOATED PLASTER				
	Remove any loose and flaking residue by means of wire brushing, wash with 'Sugar Soap' or weak spirits of salts, open up cracks and make good filler sanded smooth apply one coat alkali resistant primer and two coats acrylic emulsion paint on existing enamel paint based surfaces: Colour to be selected by SARAO				
5/1/19	On internal walls	m ²	419		
5/1/20	On external walls	m ²	219		
	ON METAL				
	Prepare surfaces and remove all loose material, dust, grease, salts and contamination with 'Degreaser GR1', rinse and apply one coat red led primer, apply one coat undercoat and two coats 'Polyurethane Enamel' paint on galvanised steel or aluminium: Colour to be selected by SARAO				
5/1/21	On existing internal and external steel door frames	m ²	13		
5/1/22	On existing steel window frames	m ²	15		
	ON WOOD				

	Sand down and prepare wood surfaces and apply one coat 'Oil Wood Primer', one coat undercoat and two coats 'Gloss Enamel' paint:				
5/1/23	On existing internal doors	m ²	26		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
5/1/24	On existing external doors	m ²	17		
	ELECTRICAL WORKS				
	Refer to the "Land Management Housing Stock Electrical Scope of Work" document issued by SARAO				
5/1/25	Fix electrical wiring (Including all necessary installation fixtures - Miscellaneous items like piping and connectors)	Item	1		
5/1/26	Allow for profit and general attendance	%			
	APPLIANCES				
	The installation of the gas stove and fridge shall adhere to domestic gas installation governed by SANS code 10087-1:2013. The contractor shall select the location of the gas cylinders at the farm. (Refer to the statement of works)				
5/1/27	Allow for supply and installation of 4 plate gas stove and gas cylinder including all necessary connecting pipes e.g defy 4 plate gas stove DSG168 or equivalent	Item	1		
5/1/28	Allow for supply and installation for a gas fridge and gas cylinder including all necessary connecting pipes e.g Gas refrigerator GR265D or equivalent	Item	1		
5/1/29	Allow for general attendance	%			
	SUNDRIES				
	Testing and commissioning:				
5/1/30	Allow for site commissioning testing of the gas installations	Item	1		
5/1/31	Contractor to supply Certificate of Compliance and gas Safety Certificate	Item	1		
	EXTERNAL WORKS				
	Refer to statement of works document issued by SARAO				
5/1/32	Supply and Install wood-fired donkie (50 litre with in-built fire box) for warm water including all necessary connections e.g pipes,ect.		No	1	

JANSEBOOM FARM - MAINDWELLING (Excl VAT) carried to Final Summary	R	
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Item No	Description	Unit	Quantity	Rate	Amount
SECTION 6: SCHIERPOORT FARM - MAIN DWELLING					
The contractor shall carry out the work in compliance with South African National Standards, adhere to SARAO RFI policies and with minimal disruption to the SARAO Site Complex					
Note: All rates amounts to be inclusive of all Material, Labour and indirect cost for the required work					
The Tenderer must inspect the Site/Building and familiarize themselves with the required scope of work to ensure all the necessary materials, equipment and resources is including in their fixed price					
Refer to drawing No. L0100-4000-001 - Rev 01					
	ALTERATIONS				
	REMOVAL OF EXISTING WORK				
6/1/1	Take up and remove existing vinyl floor tiles and prepare to receive new	m ²	54		
6/1/2	Take down and remove existing damaged ceiling, cornice, brandering if necessary and prepare to receive new (Provisional)	m ²	11		
6/1/3	Take down and remove existing damaged roof covering and prepare to receive new (Provisional)	m	30		
6/1/4	Carefully take out and remove existing kitchen cupboards and prepare to receive new (New measured elsewhere)	m	6		
6/1/5	Take down and remove existing damaged fascia boards and prepare to receive new (New measured elsewhere)	m	30		
6/1/6	Remove existing metal curtain rails	m	6		
6/1/7	Remove existing sanitary fittings and build WHB	No	1		
6/1/8	Remove existing sanitary fittings and build WC	No	1		
6/1/9	Remove existing sanitary fittings and build Bathtub	No	1		
	ROOFING (PROVISIONAL)				

	A five years guarantee shall be issued for site workmanship and water tightness				
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	Flat roof profiled corrugated metal sheeting and accessories				
6/1/10	0,53 x 0,762 x 6m Galvanized metal sheet, roof covering to existing timber trusses at approximately 300mm centre (Provisional)	m ²	30		
6/1/11	Moulded narrow polyurethane foam strip sealer	m	10		
	CARPENTRY AND JOINERY				
	FACIAS, BARGE BOARDS:				
6/1/12	12 x 225 mm Fibre cement barge board drilled and brass screwed and including steel jointing strips between lengths (Paint measured elsewhere)	m	22		
	JOINERY FITTINGS				
	When using the following system of measuring cupboard fittings a detailed specification must either be incorporated on the detail drawings of the cupboards or included here				
	General				
The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork and paint or varnish finishes					
	Kitchen cupboards etc				
6/1/13	Wall cupboard type 4000 x 580 x 450mm high with top, sides, bottom, division, shelf, back and single hinged door	No	2		

6/1/14	Floor cupboard type 4000 x 580 x 600mm high with top, sides, bottom, division, shelf, back and single hinged door, dividing framework, drawers and countertops	No	2		
6/1/15	Broom wall cupboard type 600 x 580 x 2000mm high with top, sides, bottom, back and single hinged door	No	1		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	CEILINGS				
	6,4mm Gypsum in one direction only. Fixed to 38x38mm SAP branders at 400mm centres, with Hprofile joining strips				
6/1/16	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres fixed to existing rafters (Provisional)	m ²	11		
6/1/17	Extra over ceiling for 450 x 450mm trap door of 25 x 50mm wrought softwood rebated framing with one 30 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	1		
	Insulation:				
	"Aerolight" Thermal insulation:				
6/1/18	135mM Insulation closely fitted and laid on top of on ceiling between trusses	m ²	11		
	"Rhino" gypsum plasterboard cornices, sealed with white Polyurethane sealant:				
6/1/19	75mm "Rhino" gypsum plasterboard cornices, sealed with white Polyurethane sealant	m	13		
	METALWORK				
6/1/20	Steel Double Curtain track	m	8		
	GUTTERS AND RAINWATER PIPES				

	Welded sheet steel gutters				
6/1/21	75mm x 100mm High galvanized steel square gutter	m	9		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	PLASTERING				
	PREPARATORY WORK TO EXISTING WORK				
Previously painted plastered surfaces: Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth					
6/1/22	Cement plaster on brickwork to a smooth finish: On braai area wall and openings on the roof/cracks	m ²	14		
	TILLING				
Lay 350 x 350mm Ceramic floor tiles (PC amount of R100/m ²) non-slip with 3mm joints complete and laid with tile adhesive as recommended by tile manufacturer on existing screed to suit required level. Finish all joints with approved waterproof grout. SARAO approve selected tiles:					
6/1/23	On internal floors (Provisional)	m ²	54		
6/1/24	On external floors (Provisional)	m ²	14		
	PLUMBING AND DRAINAGE				

	KITCHEN FITTINGS				
6/1/25	Grade 430 stainless steel double bowl sink and drainer size 1160 x 460mm with tiling key, 40mm chromium plated flanged outlets and waste unions, vulcanite or rubber plugs, chromium plated chains and stays, 40mm rubber resealing P-trap with extension piece and clamped connections and 15mm heavy pattern chromium plated brass wall type sink mixer with swivel spout and wall flanges	No	1		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	TAPS, VALVES, ETC				
	"Chromium Plated"				
6/1/26	15mm Angle regulating valve and 350mm long flexible connection pipe (provisional)	No	2		
6/1/27	22mm Shut-off valve	No	1		
6/1/28	Single hole counter mounted sink mixer with a swivel spout and the reach is 167mm	No	1		
	SANITARY FITTINGS				
6/1/29	Wash hand basin including all fittings such as taps, traps, pipes, stopcocks etc.	No	1		
6/1/30	Water closet complete with all fittings such as cistern, seat, flushing mechanism, stopcock and pan connectors	No	1		
6/1/31	Toilet roll holders with anti-theft	No	1		
6/1/32	5mm Silvered float glass copper backed mirrors holed for and fixed with chromium plated dome capped mirror screws: Mirror	No	1		

	600 x 450mm high				
6/1/33	Shower set including all fittings such as traps, pipes, etc.	No	1		
6/1/34	Bathtub including all fittings such as traps, pipes and taps	No	1		
	PAINTWORK				
	ALL PAINTWORK TO BE RE-MEASURED				
	PAINT TO NEW WORK				
	ON FIBRE-CEMENT				
	One coat primer and two coats acrylic paint:				
6/1/35	On ceilings and cornices	m ²	11		
6/1/36	On fascia boards	m	30		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	PREPARATORY WORK TO EXISTING WORK				
	Previously painted plastered surfaces: Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				
	ON FLOATED PLASTER				
	Remove any loose and flaking residue by means of wire brushing, wash with 'Sugar Soap' or weak spirits of salts, open up cracks and make good filler sanded smooth apply one coat alkali resistant primer and two coats acrylic emulsion paint on existing enamel paint based surfaces: Colour to be selected by SARAO				
6/1/37	On internal walls (Provisional)	m ²	120		
6/1/38	On external walls (Provisional)	m ²	100		

6/1/39	On braai area walls (Provisional)	m ²	14		
	ON METAL				
Prepare surfaces and remove all loose material, dust, grease, salts and contamination with 'Degreaser GR1', rinse and apply one coat red led primer, apply one coat undercoat and two coats 'Polyurethane Enamel' paint on galvanised steel or aluminium: Colour to be selected by SARAO					
6/1/40	On existing steel door frames	m ²	2		
6/1/41	On existing steel window frames including burglar bars	m ²	3		
6/1/42	On existing steel doors	m ²	3		
6/1/43	On existing steel door burglar bars	m ²	1		
6/1/44	On existing steel post	m	12		
	ON WOOD				
	Sand down and prepare wood surfaces and apply one coat 'Oil Wood Primer', one coat undercoat and two coats 'Gloss Enamel' paint:				
6/1/45	On existing internal doors	m ²	7		
6/1/46	On existing external doors	m ²	7		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	ON FIBRE-CEMENT				
	One coat primer and two coats acrylic paint:				
6/1/47	On ceilings and cornices	m ²	40		
	ELECTRICAL WORKS				
	Refer to the "Land Management Housing Stock Electrical Scope of Work" document issued by SARAO L0100-0000-001				

6/1/48	Fix electrical wiring (Including all necessary installation fixtures - Miscellaneous items like piping and connectors)	Item	1		
6/1/49	Allow for general attendance		%		
	EXTERNAL WORKS				
	Refer to statement of works document issued by SARAO				
6/1/50	Supply and Install wood-fired donkie (50 litre with in-built fire box) for warm water including all necessary connections e.g pipes	No	1		
6/1/51	Provide 5000L water tank including mounting steel structure	No	1		
SCHIETPOORT FARM - MAIN DWELLING (Excl VAT) total carried to Final Summary				R	

Item No	Description	Unit	Qty	Rate	Amount
	SECTION 7: VISSERSKLOOF FARM - MAIN DWELLING				
The contractor shall carry out the work in compliance with South African National Standards, adhere to SARAO RFI policies and with minimal disruption to the SARAO Site Complex					
Note: All rates amounts to be inclusive of all Material, Labour and indirect cost for the required work					
The Tenderer must inspect the Site/Building and familiarize themselves with the required scope of work to ensure all the necessary materials, equipment and resources is including in their fixed price					
Refer to drawing No. L0100-5000-002 ; L0100-5000-003 and L0100-5000-004					
	ALTERATIONS				
7/1/1	Take up and remove existing floor tiles and prepare to receive new (New measured elsewhere)	m ²	282		
7/1/2	Take down and remove existing damaged roofing prepare to receive new (Provisional)	m ²	49		

7/1/3	Carefully take out and remove existing kitchen cupboards and prepare to receive new (Provisional)	m ²	20		
7/1/4	Remove existing curtain rails	m	33		
7/1/5	Remove existing sanitary fittings and make good - WHB	No	1		
7/1/6	Remove existing sanitary fittings and make good - WC	No	1		
7/1/7	Remove existing sanitary fittings and make good - Bathtub	No	1		
	ROOFING				
	IBR 686 profile sheeting with a "Global Coat" (Sil Finish Dove Grey) in single lengths not exceeding 5000mm long lapped one corrugation at sides of sheets fixed with HHTS No.14 x 80mm self tapping electro galvanised top speed fasteners complete with bonded washers at 340mm centres:				
7/1/8	0.58mm Roof covering to timber purlins at approximately 900mm centres	m ²	49		
7/1/9	Timber roof construction (On damaged portion)	m ²	30		
7/1/10	Moulded narrow polyurethane foam strip sealer	m	36		
	CARPENTRY AND JOINERY				
	JOINERY FITTINGS				
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	When using the following system of measuring cupboard fittings a detailed specification must either be incorporated on the detail drawings of the cupboards or included here				
	GENERAL				
	The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork and paint or varnish finishes				
	Kitchen cupboards etc				

7/1/11	Wall cupboard type 4000 x 580 x 450mm high with top, sides, bottom, division, shelf, back and single hinged door	No	2		
7/1/12	Floor cupboard type 4000 x 580 x 600mm high with top, sides, bottom, division, shelf, back and single hinged door, dividing framework, drawers and countertops	No	2		
7/1/13	Broom wall cupboard type 600 x 580 x 2000mm high with top, sides, bottom, back and single hinged door	No	1		
	METALWORK				
7/1/14	Steel Double Curtain Track	m	33		
	TILING				
	Lay 350 x 350mm Ceramic floor tiles (PC amount of R100/m ²) non-slip with 3mm joints complete and laid with tile adhesive as recommended by tile manufacturer on existing screed to suit required level. Finish all joints with approved waterproof grout. SARAO approve selected tiles:				
7/1/15	On internal floors	m ²	282		
	Lay 300 x 300x 12mm Ceramic wall tiles (PC amount of R100/m ²) with an approved ceramic tile adhesive to plaster and flush pointed with tinted jointing compound, including all square and raking cutting:				
7/1/16	On internal walls: Toilet and Bathroom	m ²	49		
	PLUMBING AND DRAINAGE				
	KITCHEN FITTINGS				
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
7/1/17	Grade 430 stainless steel double bowl sink and drainer size 1160 x 460mm with tiling key, 40mm chromium plated flanged outlets and waste unions, vulcanite or rubber plugs, chromium plated chains and stays, 40mm rubber resealing P-trap with extension piece and clamped connections and 15mm heavy pattern chromium plated brass wall type sink mixer with swivel spout and wall flanges	No	1		

	TAPS, VALVES, ETC				
	"Chromium Plated"				
7/1/18	15mm Angle regulating valve and 350mm long flexible connection pipe (provisional)	No	2		
7/1/19	22mm Shut-off valve	No	1		
7/1/20	Single hole counter mounted sink mixer with a swivel spout and the reach is 167mm	No	1		
	SANITARY FITTINGS				
7/1/21	Wash hand basin including all fittings such as taps, traps, pipes, stopcocks etc.	No	1		
7/1/22	Water closet complete with all fittings such as cistern, seat, flushing mechanism, stopcock and pan connectors	No	1		
7/1/23	Toilet roll holders with anti-theft.	No	1		
7/1/24	5mm Silvered float glass copper backed mirrors holed for and fixed with chromium plated dome capped mirror screws: Mirror 600 x 450mm high.	No	1		
7/1/25	Shower set including all fittings such as traps and pipes	No	1		
7/1/26	Bathtub including all fittings such as traps, pipes and taps	No	1		
	<u>Allow for fixing existing leaking underground pipes</u>				
7/1/27	In bathrooms	Item	1		
	PAINTWORK				
	PREPARATORY WORK TO EXISTING WORK				
	For previously painted plastered surfaces: Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed. Cracks shall be opened, filled with a suitable filler, and finished smooth.				
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	ON FLOATED PLASTER				

	Remove any loose and flaking residue by means of wire brushing, wash with 'Sugar Soap' or weak spirits of salts, open up cracks and make good filler sanded smooth apply one coat alkali resistant primer and two coats acrylic emulsion paint on existing enamel paint based surfaces: Colour to be selected by SARAO				
7/1/28	On internal walls	m ²	409		
7/1/29	On external walls	m ²	214		
	ON METAL				
	Prepare surfaces and remove all loose material, dust, grease, salts and contamination with 'Degreaser GR1', rinse and apply one coat red led primer, apply one coat undercoat and two coats 'Polyurethane Enamel' paint on galvanised steel or aluminium: Colour to be selected by SARAO				
7/1/30	On existing internal and external steel door frames	m ²	32		
7/1/31	On existing steel window frames	m ²	18		
	ON WOOD				
	Sand down and prepare wood surfaces and apply one coat 'Oil Wood Primer', one coat undercoat and two coats 'Gloss Enamel' paint:				
7/1/32	On existing internal doors	m ²	36		
7/1/33	On existing external doors	m ²	10		
7/1/34	On wooden cupboards	m ²	12		
	ON FIBRE-CEMENT				
	One coat primer and two coats acrylic paint:				
7/1/35	On ceilings and cornices	m ²	300		
	ELECTRICAL WORKS				
	Refer to the "Land Management Housing Stock Electrical Scope of Work" document issued by SARAO				
7/1/36	Fix electrical wiring (Including all necessary installation fixtures - Miscellaneous items like piping and connectors)	Item	1		
7/1/37	Allow for general attendance		%		
	TOTAL CARRIED FORWARD				

	TOTAL BROUGHT FORWARD				
	APPLIANCES				
	The installation of the gas stove and fridge shall adhere to domestic gas installation governed by SANS code 10087-1:2013. The contractor shall select the location of the gas cylinders at the farm. (Refer to the statement of works)				
7/1/38	Allow for supply and installation of 4 plate gas stove and gas cylinder including all necessary connecting pipes e.g defy 4 plate gas stove DSG168 or equivalent	Item	1		
7/1/39	Allow for supply and installation for a gas fridge and gas cylinder including all necessary connecting pipes e.g Gas refrigerator GR265D or equivalent	Item	1		
7/1/40	Allow for general attendance		%		
	SUNDRIES				
	Testing and commissioning:				
7/1/41	Allow for site commissioning testing of the gas installations	Item	1		
7/1/42	Contractor to supply Certificate of Compliance and gas Safety Certificate	Item	1		
	EXTERNAL WORKS				
	Refer to statement of works document issued by SARAO				
7/1/43	Supply and Install wood-fired donkie (50 litre with in-built fire box) for warm water including all necessary connections e.g pipes	No	1		
7/1/44	Provide 5000L water tank including mounting steel structure	No	1		
VISSERSKLOOF FARM - MAIN DWELLING (Excl VAT) total carried to Final Summary					

Item No	Description	Unit	Qty	Rate	Amount
	SECTION 8 : JASKLOOF FARM - MAIN DWELLING				
The contractor shall carry out the work in compliance with South African National Standards, adhere to SARAO RFI policies and with minimal disruption to the SARAO Site Complex					
Note: All rates amounts to be inclusive of all Material, Labour and indirect cost for the required work					
The Tenderer must inspect the Site/Building and familiarize themselves with the required scope of work to ensure all the necessary materials, equipment and resources is included in their fixed price					
	Refer to drawing No. L0100-2000-001 - Rev 01				
	ALTERATIONS				
8/1/1	Take out and remove existing carpets	m ²	26		
8/1/2	Breakdown internal wall to create an opening for a single door	m ²	2		
8/1/3	Chop/cut out 500mm wide concrete floor from the edge of the bearing existing walls (only the section to be thickened)	m	9		
8/1/4	Remove existing sanitary fittings and make good - WC	No	2		
8/1/5	Take out and remove existing door including frame (to be re-installed elsewhere)	No	1		
8/1/6	Take out and replace existing internal door locks (new locks measured elsewhere)	No	8		
	FOUNDATIONS				
8/1/7	500 x 500mm 25MPa/19mm Reinforced concrete slab thickening for 260mm new internal brick wall including necessary dowels, reinforcement etc. (closing the door opening and open spaces)	m ³	2		
	SUPERSTRUCTURE				
8/1/8	Brickwork of NFP 14MPa bricks in class II mortar: 260mm internal brick wall including necessary anchor transfers/wall ties, sealant, backer rod, compressible filler etc. (closing the door opening and open spaces)	m ²	21		

8/1/9	150mm Wide reinforcement built in horizontally	m	34		
8/1/10	110 x 75mm Prestressed fabricated lintels in lengths not exceeding 3m on the new door	m	6		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	CARPENTRY AND JOINERY				
8/1/11	Semi solid flush panel door 813 x 2032mm high to be fitted with SABS approved 2-lever mortice lockset with superior grade steel frame complete with hinges: On internal wall	No	2		
	METALWORK				
8/1/12	Steel Double Curtain Track	m	21		
8/1/13	Galvanised pressed steel door frame for single door 813 x 2032mm high - New internal door	No	2		
8/1/14	3 Lever Lock Set for doors	No	8		
	TILING				
	350 x 350mm Ceramic floor tiles (PC amount of R85/m ²) non-slip with 3mm joints complete and laid with tile adhesive as recommended by tile manufacturer on existing screed to suit required level. Finish all joints with approved waterproof grout. SARAO approve selected tiles:				
8/1/15	On internal floors	m ²	81		
	PLASTERING				
	PLASTER TO NEW WORK				
8/1/16	Cement plaster on brickwork to a smooth finish: On internal walls (on door opening and open spaces new walls)	m ²	22		
	PLUMBING AND DRAINAGE				
	SANITARY FITTINGS				
8/1/17	Water closet complete with all fittings such as cistern, seat, flushing mechanism, stopcock and pan connectors	No	2		
	PAINTWORK				
	PAINT TO NEW WORK				

	Apply one coat red led primer, apply one coat undercoat and two coats 'Polyurethane Enamel' paint on galvanised steel or aluminium: Colour to be selected by SARAO				
8/1/18	One coat alkali resistant primer and two coats acrylic emulsion paint: On internal new walls	m ²	22		
8/1/19	One coat wood primer and two coats "Velvaglo" paint: On new door	m ²	7		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	PREPARATORY WORK TO EXISTING WORK				
	Previously painted plastered surfaces: Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				
	ON FLOATED PLASTER				
	Remove any loose and flaking residue by means of wire brushing, wash with 'Sugar Soap' or weak spirits of salts, open up cracks and make good filler sanded smooth apply one coat alkali resistant primer and two coats acrylic emulsion paint on existing enamel paint based surfaces: Colour to be selected by SARAO				
8/1/20	On internal walls	m ²	432		
8/1/21	On external walls	m ²	244		
	ON METAL				
	Prepare surfaces and remove all loose material, dust, grease, salts and contamination with 'Degreaser GR1', rinse and apply one coat red led primer, apply one coat undercoat and two coats 'Polyurethane Enamel' paint on galvanised steel or aluminium: Colour to be selected by SARAO				
8/1/22	On existing internal and external steel door frames	m ²	24		
8/1/23	On existing steel window frames	m ²	13		
	ON WOOD				
	Sand down and prepare wood surfaces and apply one coat 'Oil Wood Primer', one coat undercoat and two coats 'Gloss Enamel' paint:				
8/1/24	On existing internal doors	m ²	26		

8/1/25	On existing external doors	m ²	10		
	ELECTRICAL WORKS				
	Refer to the "Land Management Housing Stock Electrical Scope of Work" document issued by SARAO				
8/1/26	Fix electrical wiring (Including all necessary installation fixtures - Miscellaneous items like piping and connectors)	Item	1		
8/1/27	Install power cable connecting main house to Nutec Building	Item	1		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
8/1/28	Supply and Install solar geyser - Low Pressure/ Non-Pressure Solar Geyser - 100L. (To be approved by SARAO RFI team before site installation)	No	1		
8/1/29	Supply and Install Led lighting fixture for house internals, with estimated load of 12W each	No	17		
8/1/30	Install a plug point for an gas fridge with estimated load of 200W in the kitchen	No	1		
8/1/31	Allow for general attendance			%	
	APPLIANCES				
	The installation of the gas stove and fridge shall adhere to domestic gas installation governed by SANS code 10087-1:2013. The contractor shall select the location of the gas cylinders at the farm. (Refer to the statement of works)				
8/1/32	Allow for supply and installation of 4 plate gas stove and gas cylinder including all necessary connecting pipes e.g defy 4 plate gas stove DSG168 or equivalent	Item	1		
8/1/33	Allow for supply and installation for a gas fridge and gas cylinder including all necessary connecting pipes e.g Gas refrigerator GR265D or equivalent	Item	1		
8/1/34	Allow for general attendance			%	
	SUNDRIES				
	Testing and commissioning:				

8/1/35	Allow for site commissioning testing of the gas installations	Item	1		
8/1/36	Contractor to supply Certificate of Compliance and gas Safety Certificate	Item	1		
JASKLOOF FARM - MAIN DWELLING (Excl VAT) total carried to Final Summary				R	

Item No	Description	Unit	Qty	Rate	Amount
	SECTION 9 : JASKLOOF FARM - NUTEC				
	The contractor shall carry out the work in compliance with South African National Standards, adhere to SARAO RFI policies and with minimal disruption to the SARAO Site Complex				
	Note: All rates amounts to be inclusive of all Material, Labour and indirect cost for the required work				
	The Tenderer must inspect the Site/Building and familiarize themselves with the required scope of work to ensure all the necessary materials, equipment and resources is including in their fixed price				
	Refer to drawing No. L0100-2000-002 - Rev 01				
	ALTERATIONS				
9/1/1	Take out and remove existing carpets	m ²	75		
9/1/2	Take up and remove existing floor tiles and prepare to receive new (New measured elsewhere)	m ²	26		
9/1/3	Carefully take out and remove existing external door and prepare to receive new (New measured elsewhere)	No	1		
9/1/4	Take out and replace existing internal door locks (new locks measured elsewhere)	No	7		
	CARPENTRY AND JOINERY				
9/1/5	Wrought Meranti external door 813 x 2032mm high to be fitted with SABS approved 2-lever mortice lockset with superior grade steel frame complete with hinges: On external wall	No	1		
	METALWORK				
9/1/6	Steel Double Curtain Track	m	10		
9/1/7	3 Lever Lock Set for doors	No	7		
	TILING				

	350 x 350mm Ceramic floor tiles (PC amount of R100/m²) non-slip with 3mm joints complete and laid with tile adhesive as recommended by tile manufacturer on existing screed to suit required level. Finish all joints with approved waterproof grout. SARAO approve selected tiles:				
9/1/8	On internal floors	m²	101		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	PLUMBING AND DRAINAGE				
	SANITARY FITTINGS				
9/1/9	Water closet complete with all fittings such as cistern, seat, flushing mechanism, stopcock and pan connectors	No	1		
	PAINTWORK				
	PREPARATORY WORK TO EXISTING WORK				
	Previously painted plastered surfaces: Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth.				
	ON FLOATED PLASTER				
	Remove any loose and flaking residue by means of wire brushing, wash with 'Sugar Soap' or weak spirits of salts, open up cracks and make good filler sanded smooth apply one coat alkali resistant primer and two coats acrylic emulsion paint on existing enamel paint based surfaces: Colour to be selected by SARAO				
9/1/10	On internal walls	m²	204		
9/1/11	On external walls	m²	122		
	ON METAL				
	Prepare surfaces and remove all loose material, dust, grease, salts and contamination with 'Degreaser GR1', rinse and apply one coat red led primer, apply one coat undercoat and two coats 'Polyurethane Enamel' paint on galvanised steel or aluminium: Colour to be selected by SARAO				
9/1/12	On existing internal and external steel door frames	m²	20		
9/1/13	On existing steel window frames	m²	5		

	ON WOOD				
	Sand down and prepare wood surfaces and apply one coat 'Oil Wood Primer', one coat undercoat and two coats 'Gloss Enamel' paint:				
9/1/14	On existing internal doors	m ²	13		
9/1/15	On existing external doors	m ²	3		
	ON FIBRE-CEMENT				
	One coat primer and two coats acrylic paint:				
9/1/16	On ceilings and cornices	m ²	110		
	TOTAL CARRIED FORWARD				
	TOTAL BROUGHT FORWARD				
	ELECTRICAL WORKS				
	Refer to the "Land Management Housing Stock Electrical Scope of Work" document issued by SARAO				
9/1/17	Fix electrical wiring (Including all necessary installation fixtures - Miscellaneous items like piping and connectors)	Item	1		
9/1/18	Supply and Install solar geyser - Low Pressure/ Non-Pressure Solar Geyser - 100L. (To be approved by SARAO RFI team before site installation)	No	1		
9/1/19	Allow for general attendance		%		
JASKLOOF FARM - NUTEC (Excl VAT) total carried to Final Summary				R	

Section No	FINAL SUMMARY	Amount (Excl. VAT)
1	PRELIMINARIES AND GENERAL	R
2	SWARTFONTEIN FARM - MAIN HOUSE	R
3	SWARTFONTEIN FARM - OFFICE	R
4	SWARTFONTEIN FARM - RONDAVEL	R
5	JANSEBOOM FARM - MAIN DWELLING	R
6	SCHIETPOORT FARM MAIN DWELLING	R
7	VISSERSKLOOF FARM - MAIN DWELLING	R
8	JASKLOOF FARM - MAIN DWELLING	R
9	JASKLOOF FARM - NUTEC	R
Sub Total (Excluding VAT)		R
ALLOW FOR DETAIL DESIGN SERVICES (Phase 1 &2): (Site inspection/surveys/meetings/workshops, review & analyse SARAO reference designs, prepare preliminary designs, Client design review and acceptance, design/plans submissions to the Local Municipality for approval if necessary)		R
Total (Excluding VAT)		R
VAT (15%)		R
GRAND TOTAL (INCLUDING VAT) CARRIED TO FORM C1.1 OFFER AND ACCEPTANCE AGREEMENT		R

PLEASE NOTE:

If the Contractor wishes to deviate from SARAO Reference Designs, the Contractor may submit the alternative proposal with justifications/motivations, which will be reviewed for acceptance during Tender submission. **(this will be evaluated separately)**

ALTERNATIVE DETAIL DESIGN SERVICES:	R
VAT (15%)	R
TOTAL (Including VAT)	R

SUMMARY FOR BID OPENING PURPOSES (Must include both Phase 1 and phase 2)

NAME OF BIDDER:

OFFERED TOTAL: R.....

(Amount brought forward from
The Form of Offer) *

* Should any discrepancy occur between this figure and that stated in the Form of Offer and Acceptance, the latter shall apply.

SIGNED BY/ON BEHALF OF BIDDER

	NAME		SIGNATURE	DATE

COMPANY STAMP

Declaration

(In respect of completeness of Tender)

I/we, the undersigned, do hereby declare that these are the properly priced Bill of Quantities forming Part D2 of this Contract Document in consecutive order upon which my/our tender for the BID NO:

SIGNED BY/ON BEHALF OF BIDDER

	NAME		SIGNATURE	DATE

● **7.APPENDIX A: DETAILED SCOPE OF WORK DOCUMENT**

STATEMENT OF WORK: LAND MANAGEMENT PROJECT -WORK PACKAGE 1: HOUSING STOCK-RENOVATIONS AND REPAIRS (5 FARMS) - L0100-0000-004 REV 1

[SoW](#)

● **APPENDIX B: LIST OF DRAWINGS**

[List of drawings](#)

Swartfontein Office Alterations

Drawing number	Description
MKNP - 7/4/13/1/1 Rev00	Existing Floor Plan and Elevations
MKNP - 7/4/13/1/2 Rev00	New Floor Plan
MKNP - 7/4/13/1/3 Rev00	Section
L0100-1001-003	Swartfontein Main Dwelling Layout
L0100-1001-004	Swartfontein Site Plan
L0100-1001-005	Swartfontein Rondawel
L0100-1001-006	Swartfontein Farm Outbuilding Layout
L0100-1001-001	Single Line Diagram : Swartfontein Office DB
L0100-1001-002	Swartfontein Office Power Cable Route
L0100-1001-005	Placement of the Sewage tank and the CMC Container
GEN/203/01/1/00	Rodding Eye Installation
GEN/300/01/1/00	Trenching for Sewer and Water pipelines
GEN/200/03/1/01	Septic/Conservancy Tank Installation
L0100-1001-008	Swartfontein Offices- Services Specifications
4540-000002	Septic-tank-installation-instructions-

4540-000001	Rototank Septic Tank A4 Flyer
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Jaskloof Farm RE76/2 Main House Renovations

Drawing number	Description
L0100-2000-001	Layout & Existing Floor Plan and Elevations

Jaskloof farm Nutec Building

Drawing number	Description
L0100-2000-002	Layout & Existing Floor Plan and Elevations

Janseboom Farm RE4947/2 main House Renovation.

Drawing number	Description
L0100-3000-001	Existing Floor Plan and Elevations
L0100-3000-003	Janseboom Farm: Site Plan Layout

Schietpoort Farm RE64/2 Main House Renovations.

Drawing number	Description
L0100-4000-0003	Schietpoort Farm: Main Dwelling

Visserskloof Farm Main House Renovations

L0100-5000-003	Visserskloof 1 Farm Site Plan Layout Main Dwelling Layout
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EMC Control plan

SSA-0008C-014	Electromagnetic Compatibility (EMC) Control plan for Land Management (SANPARKS)
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Electrical Scope of Work

L0100-0000-001	Land Management Housing Stock Electrical Scope of work
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