

 Eskom	Technical Evaluation	NCOU
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Title: **Criteria for Technical Evaluation on Live Work Contractors (44-132kV Live Work Maintenance on Stick and Barehand Northern Cape Operating Unit - GEMMA Cluster)**

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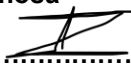
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1. INTRODUCTION

This is a Northern Cape Operating Unit - Gemma Cluster document that will set up the minimum requirement to be met by Live Work contractors. This document is aimed at setting the standard technical evaluation criteria for evaluating **44-132kV Live Work Maintenance in the Northern Cape Operating Unit -GEMMA Cluster, Stick and Barehand Method.**

This document will enable the assessor/s to conduct fair and transparent evaluations on possible Live Work contractors prior to a contract being awarded to them and to be used during follow up audits and evaluations. It is in line with **240-151423891 (CRITERIA FOR THE TECHNICAL EVALUATION OF LIVE WORK CONTRACTORS)**

2. SUPPORTING CLAUSES

2.1 SCOPE

The document contains mandatory technical requirements, functional evaluation criteria and the objective criteria for evaluating the establishment of Live Work Maintenance Contract including pole planting, Live Work Stick and Barehand method for the Northern Cape Operating Unit - Gemma Cluster for 36 months on an "As and When required basis". The outcome of this evaluation will enable the assessor to compile a report for management to prove compliance or non-compliance to the live work standard and task manuals.

2.1.1 Purpose

The purpose of this document is to evaluate whether the respective contractors can meet the requirements for quality management and possess the necessary capability in terms of the following:

- Human Resources
- Vehicles
- Basic Hand Tools
- Personal Protective Equipment
- Live Work Equipment
- Lifting Gear
- Expertise
- Business Premises
- Quality Management Systems
- Safety Risk Process
- OHS Act

The outcome of this evaluation will enable the assessor/s to compile a report for Management to prove compliance / non-compliance to the Live Work and appropriate Eskom Standards, Procedures, Regulations, Engineering / Technical Instructions / Bulletins and Task Manuals.

2.1.2 Applicability

This document is applicable to all contractors who are working Live or indicated their interest to obtain Live Work contracts in Eskom (Northern Cape Operating Unit- GEMMA CLUSTER).

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2.2 NORMATIVE/INFORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.2.1 Normative

- [1] ISO 9001 Quality Management Systems.
- [2] ISO 14001 Environmental Management System.
- [3] ISO 45001 Management Systems of Occupational Health and Safety
- [4] 240-70413029 Care, Inspection, Maintenance and Testing of Live Work Strain Carriers
- [5] 240-146738795 Distribution High Voltage Live Working.
- [6] 240-76222282 Care, Inspection, Maintenance and testing of Live Work lifting equipment
- [7] 240-92064047 Routine inspection, care, and maintenance of insulating MEWP's / Sky Ladders
- [8] 240-142701257 Minimum Requirements to be met for the Manufacturing of Live Work Insulating MEWP's.
- [9] 240-105015449 Live Work Risk Assessment and Fall Protection Plan
- [10] 240-139695158 High Voltage Live Work Training and Assessment Standard.
- [11] 240-70175091 The Use, Care, Maintenance and Testing of High Voltage Operating sticks.
- [12] 240-114967625 Operating Regulations for High Voltage Systems
- [13] 240-70413865 Power Delivery Operating Assessment, Authorization and Training standard
- [14] 240-70413681 Portfolio of Evidence for Authorizations
- [15] 240-151423891 Criteria for the Technical Evaluation of Live Work Contractors
- [16] 240-135661769 Live Work Equipment Testing Standard

2.2.2 Informative

None

2.3 DEFINITIONS

Definition	Description
Desktop Evaluation	This part of the evaluation starts when submissions are opened for the first time.
Site evaluation	This part of the evaluation is performed to assess whether the supplier has the capability to enter a contract with Eskom.

2.3.1 Disclosure Classification

Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).

2.4 ABBREVIATIONS

Abbreviation	Description
FAS	Fall Arrest System

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Abbreviation	Description
HVO	High Voltage Operating
kV	Kilo Volt
LAP	List of Approved Products
LMI	Lifting Machine Inspector
LV	Low Voltage
DLWOC	Distribution Live Work Operational Committee
MEWP	Mobile Elevating Work Platform
MV	Medium Voltage
NC	Northern Cape
ORHVS	Operating Regulations for High Voltage Systems
OTS	Officer Technical Support
PiC	Person in Charge of Live Work
PoE	Portfolio of Evidence
PtP	Person Who May Perform Live Work
SWL	Safe Workload
Snr Sup	Senior Supervisor

2.5 ROLES AND RESPONSIBILITIES

2.5.1 Live Work Manager / Technical Support Manager

The Live Work / Technical Support Manager shall:

- Ensure that the requirements of this report are enforced.
- Appoint a competent person to evaluate all Live Work contractors.

2.5.2 Live Work Senior Supervisor and / or OTS and / or any other Competent person

Live Work Senior Supervisor and / or OTS and / or any other Competent person shall:

- Form part of the clarification meeting with the contractors to define and explain requirements.
- To conduct technical evaluation on the contractors prior to any contracts being awarded.

2.5.3 Live Work contractor Employer (16.1)

Live Work contractor shall:

- Attend the clarification meeting.
- Attend all evaluations.
- All employers shall appoint a person in the company that has the competence to do task observation on all teams.
- The employer shall ensure that at least 3 task observations are performed annually on every live worker in his employment.

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- The employer shall ensure that all authorizations are maintained.
- The employer shall ensure that all logbooks are maintained.
- The employer shall ensure that corrective action is taken on all non-conformances identified.
- The employer shall on request of Eskom provide work position of live work teams.
- The employer shall on request of Eskom produce all documentation of live workers.
- The employer shall ensure that no unauthorized laborers are actively involved in any part of the task while live work is being performed.
- The employer shall ensure that the original documentation and a copy of all logbooks and relevant evidence is provided to Eskom prior to evaluation.
- Submit the tender as complete original tender, plus one (1) hard copy of the original tender at the tender submission deadline.
- Copies of training certificates must be certified by a commissioner of oaths with a signature date not older than three months prior to tender closing date.
- If the certificates that are submitted are not clear (unreadable) it will be disqualified.
- Contractor can only perform duties under the live work Stick and Barehand maintenance contract according to their Task manuals limitations on authorizations.
- Findings - Acceptance by Owner / Manager of company as true reflection of non-conformances in terms of relevant Live work requirements/ Standards as observed by Live work Snr Sup /OTS.

Note: The copy of documentation provided to Eskom shall remain in Eskom's custody for auditing purposes.

2.6 PROCESS FOR MONITORING

NA

2.7 RELATED/SUPPORTING DOCUMENTS

- [1] 240-75881496 Procedure for Handling, Auditing and Stacking of New Wooden Poles Standard
- [2] 240-75883148 Conventional Stay Planting and Compacting, Pole Planting and Compaction and Rock Anchor installation and Testing Standard
- [4] 240-120804300 Standard for the Labelling of Electrical Equipment within Eskom Wires Networks
- [5] 240-80605256 Access to farms (Includes Strategy on Dealing with Game farms)

3. TECHNICAL EVALUATION

3.1 TECHNICAL EVALUATION PROCEDURE

The technical evaluation procedure is specific to Live Work maintenance and associated projects for the Northern Cape Operating Unit - GEMMA Cluster.

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The evaluation process has two main parts:

- Desktop Evaluation
- Site Evaluation

3.1.1 Desktop Evaluation

This evaluation exercise is performed by the Eskom evaluating representatives. This part of the evaluation starts when the tender submissions are opened for the first time.

The technical evaluation will be evaluated as follows: the mandatory criteria (desktop evaluation) and then proceeds to functionality (site evaluation).

For desktop evaluation, the suppliers are required to obtain a minimum of 85% to be considered for the next evaluation phase which is site evaluation.

Only submissions that pass requirements will proceed to the functionality phase. Scoring/rating for functionality criteria will be assessed out of 100% (Site evaluation).

One /points will be allocated per item and thereafter the percentage is worked out.

Evaluation criteria for desktops are in Annexures of this document. Document submission should be submitted in following order as per Annexures.

Note that the overall minimum threshold for desktop evaluation is 85 %

The test certificates do not need to be valid at this time (desktop evaluation), previous certificates or expired certificates will be accepted during the desktop evaluation but not during the site evaluation.

3.1.2 Site Evaluation

This assessment is performed based on assessing the supplier's capability to enter a contract with Eskom with respect to the establishment of a Live Work Stick and Barehand contract for Northern Cape Operating Unit - Gemma Cluster.

This report and any actions that are listed or recommended because of this assessment, is by no means a confirmation or guarantee that any contract will be entered into by Eskom and the supplier or that post contract performance has been achieved.

Any actions undertaken by the supplier because of this report is for the supplier's account. Any liability for the said actions undertaken by the supplier is not transferrable to Eskom in any way.

The assessment team has no authority or responsibility in the decision taken by Eskom with respect to contracting for a product or service.

Any statements, intentions and/or actions expressed by the assessment team during the assessment and post the assessment has no effect and does not constitute any liability to Eskom with regards to contract placement or post contract performance guarantees.

All vehicles used must be road worthy and in a good condition of service as per road regulations.

Aerial devices used for live work shall meet the requirements as set up in the standard **240 – 142701257 (MINIMUM REQUIREMENTS TO BE MET FOR THE MANUFACTURING OF LIVE WORK INSULATING MEWPS)**

Evaluation criteria for site will is in Annexure B of this document.

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Note that site evaluation is threshold is 100%.

Tools and Equipment should be available on site for the inspection which will be conducted by Eskom representatives at the Supplier's Business premises/Central place.

Live Work Team should be available during Site Evaluation .

AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation
Mapaseka Majoro	Live Work Manager
Lanese Barth	Technical Support Manager

4. REVISIONS

Date	Rev.	Compiler	Remarks
	2		To set up the standard technical evaluation criteria for evaluating Live Work Contractors

5. DEVELOPMENT TEAM

The following people were involved in the development of this document:

Martha Diale – Senior Supervisor Live Work

Irvin Khosa- Live Work Facilitator

Hosia Mashapu- Officer Technical

Mapaseka Majoro- Live Work Manager

Lanese Barth-Technical Support Manager

Patrick Ferris- Senior Technical Official

6. ACKNOWLEDGEMENTS

- N/A

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ANNEX A: DESKTOP EVALUATION

Minimum training and documentation for Stick and Barehand Method

Elements:	Evidence:	Mark/s	Weight
A. Vehicles : 10% Weight			40%
1.1. Live Work truck/Aerial device, registration documents or lease agreement with a legitimate company	Registration Documentation – Registered under Company name or Company owner and a picture of the vehicle or Lease agreement signed by both parties and a picture of the vehicle	2	
1.2. Electrical Test Certificate (Boom, Basket, Liner, Earth Spike and Foot Plate)	Certificates	1	
1.3. Mechanical test/ Load test	Certificates by Registered LMI	1	
1.4. Acoustic test	Certificate	1	
1.5. Oil test	Certificate	1	
1.6. Max height displayed(from 15m-28m)	Picture	1	
1.7. Functional test (Electrical Interlock system)	Operation of vehicle / monthly inspection report	1	
1.8. Emergency procedure display	Picture	1	
1.9. Voltage rating displayed (44kv-132kv)	Picture	1	
1.10.Safe work load(SWL) displayed	Picture	1	
1.11. Valid license disc	From Traffic Department	1	
1.12. 2m clearance for earth spike displayed	Picture	1	

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2. LDV x1, registration documents or lease agreement with a legitimate company	Registration Documentation – Registered under Company name or Company owner and picture of the vehicle or Lease agreement signed by both parties and picture of the vehicle	2	
3.1. Crane truck(x2), registration documents or lease agreement with a legitimate company	Registration Documentation – Registered under Company name or Company owner and a picture of the vehicle or Lease agreement signed by both parties and a picture of the vehicle	2	
3.2. Mechanical test / Load test	Certificates by Registered LMI	1	
3.3. Certificate of Fitness	Copy of Certificate of Fitness from the Traffic Department	1	
4.1 Drill truck, registration documents or lease agreement with a legitimate company	Registration Documentation – Registered under Company name or Company owner and picture of the vehicle or Lease agreement signed by both parties and picture of the vehicle	2	
4.2 Valid license disc	Copy of Certificate of Fitness from the Traffic Department	1	
Total		22	
B. Administration : 3% Weight			
1. Organogram / Live Work structure	Of the company (showing, CEO, PiC, PtP, Crane operator, Safety Representatives ect.) A minimum of three PtP's, one PiC with a crane operator	1	

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Maintenance and Associated Projects for Northern Cape Operating
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2. Regular Safety meetings with staff x 3	Minutes	1	
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3. Certified Driver's License and PDP for MEWP, Drill truck, Crane Driver	Employees as per minimum number (9) required	1	
4. Minimum Qualification for Artisans/Electricians	Employees as per minimum number (3) required	1	
Total		4	

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Prerequisite: 87% weight	Evidence:	PiC	1 st PtP	2 nd PtP	3 rd PtP	4 th PtP	5 th PtP	6 th PtP	7 th PtP	Marks	Mark obtained
Indicate the number of Stick and Barehand teams											
1.1. Previous authorisation for Stick and Barehand	Authorization	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	
1.2. Medical fitness/ fitness for duty certificate	Valid medical certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	
1.3. First Aid 1 & 2 (US120496)	Clear, valid certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	
1.4. Basic Fire Fighting (US12484)	Clear, valid certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	
1.5. Supervision of people in Electrically Hazardous Locations (EL W001)	Clear, valid certificate	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	
1.6. ORHVS (HVO 04)	Clear, valid certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	
1.7. MV Line Construction Training	Clear, valid certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	
1.8 Basic Rigging	Clear, valid certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	
1.9. Operate a Mobile Elevated Work Platform (OATO 04) 243272	Clear, valid, certificate.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	
1.10 Safe use of Working from Heights system (US229998) FAS	Clear, valid certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	
1.11 Working from Heights Rescue (US229995) FAS Rescue	Clear, valid certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	

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1.12 Understanding the fundamentals of Electricity (L2C 01) (If not a qualified electrician or technician)	Clear, valid certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	
1.13 Equipotential earthing (OL2 002)	Clear, valid certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	
1.14 Pre-task Planning and Risk Assessment PRE 2(b)	Clear, valid certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	
1.15 Live Work Stick and Barehand Training	Clear, valid certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	
1.16 Environmental Awareness (HVA 01)	Clear, valid certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	
1.17 Lifting tackle inspection course (L4E 12) (LMI approved)	Clear, valid certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	
1.18 Chainsaw training US Nr 117062	Clear, valid, certificate.	No	Yes	No	No	No	No	No	No	No	1	
1.2 Select, use, and care for electrical measuring instruments (US10237) (If not a qualified electrician or technician)	Clear, valid certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	8	

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Crane Operator											
2.1 Crane operator certificate	Clear, valid, and certified copy of certificate.	No	Yes	No	No	No	No	No	No	1	
2.2 Basic Rigging (US12481)	Clear, valid, and certified copy of certificate.	No	Yes	No	No	No	No	No	No	1	
2.3 Medical Fitness certificate	Clear, valid, and certified copy of certificate.	No	Yes	No	No	No	No	No	No	1	
2.4 Risk Assessment Training/ HIRA (PRE 002)	Clear, valid, and certified copy of certificate.	No	Yes	No	No	No	No	No	No	1	
2.5 Live Work Appreciation Course (If not Live Worker)	Clear, valid, and certified copy of certificate.	No	Yes	No	No	No	No	No	No	1	
2.6 Equipment Earthing (OL2 002)	Clear, valid, and certified copy of certificate.	No	Yes	No	No	No	No	No	No	1	
Total										148	

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ANNEX B SITE EVALUATION

Minimum Live Works Tools and Equipment per team for Stick and Barehand

Method Evaluation

1. Vehicles:				
Elements:	Evidence	Yes	No	
1.1. Live Work Aerial Device, registration documents for company or rental from a bonified company	Registration Documentation – Registered under Company name or Company owner of the vehicle or Lease agreement signed by both parties. Registration number:			
1.1.1 Type of vehicle Certificate of fitness	Copy of Certificate of Fitness from the Traffic Department			
1.1.2 Valid Electrical Test Certificate (with truck registration) for the following:	Certificates (Date tested)			
1.1.3 Footplate and earth lead	Certificates (Date tested)			
1.1.4 Mechanical test / Load test	Certificates (Date tested) Certificates by Registered LMI			
1.1.5 Acoustic test	Certificates (Date tested)			
1.1.6 Oil tests	Certificates (Date tested)			
1.1.7 Six monthly visual inspection	Proof of visual inspection done by LMI			
1.1.8 Voltage rating displayed	Voltage rating displayed on the MEWP			
1.1.9 Safe workload displayed	SWL rating displayed on the MEWP			
1.1.10 Max height displayed	Max height displayed on the			

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	MEWP			
1.1.11 Functional test	Testing of the vehicle			
1.1.12 Elect. Interlock system				
1.1.13 Emergency procedure display				
1.1.14 Two-meter clearance displayed				
1.2 Crane	Registration number:			
1.2.1 Type of crane and certificate of fitness	Copy of Certificate of fitness from Traffic Department			
1.2.2 Mechanical test / load test	Certificates (Date tested) Certificates by Registered LMI			
1.2.3 Safe workload displayed on crane.	Safe workload of crane to be displayed			
1.2.4 SWL & punch marks on hook	Hook to have the punch mark			
1.2.5 Hook equipped with serviceable safety latch.	Hook to be equipped with a safety latch			
1.2.6 Foot plate and earth lead.	The crane to be equipped with the foot plate and the earth spike			
1.2.7 Working under live line notice displayed.	Working under live line notice to be displayed on the crane			
1.2.8 Six monthly visual inspection	Proof of visual inspection done by LMI			
All vehicles used must be roadworthy and in a good condition of service.				
2. Requirement for Tool and equipment's	Evidence			
2.1 No modifications on tools and	If the modification is done, it should be approved by LWTC			

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equipment				
2.2 Suitable storage facilities / transporting	As per standard 240-135663316 under 3.3.2 Storage			
2.3 Only approved types of equipment is allowed.	Only approved products to be used.			
2.4 All live work equipment must be in a very good serviceable condition.	Tools and equipment condition			
2.6 Daily and 3 monthly inspection sheets should be available.	Inspection sheets			
2.7 All equipment must have a unique serial / asset number.	Asset Register and Inspection register			
2.8 SWL displayed on all appropriate tools. (Lifting equipment) and rated voltage.	Certificates and Appropriate tools by LMI			
2.9 All lifting machine should have been mechanical tested and certified.	Certificates. Serial / assets numbers correspond with valid test certificates by LMI			
2.10 All lifting tackle should have been inspected three monthly by a competent person.	Acceptance Certificates Refer to OHS Act			

Tools and equipment required:			
3. Lifting equipment	Minimum required	Quantity	Remarks
3.1 Snatch pulley	4		
3.2 Come along (4 ton)	2		
3.3 Compression yoke (Live Yoke)	1		

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3.4 Nylon sling	4		
3.5 Hand Line	1		
3.6 Plastic bucket for hand line	1		
3.7 2X3 Pulley rope	2		
3.8 Pole tong (63mm)	3		
3.9 Pole tong (38mm)	3		
3.10 Universal Stick	4		
3.11 Universal fittings			
3.12 Dead yoke	1		
3.13 Insulating Cradle	1		
3.14 Strainer stick	2		
3.15 Ratchet wrench	2		
3.16 Tower saddle clamp	3		
3.17 Pole saddle clamp	3		
3.18 Robe snubbing bracket	2		
3.19 Nylon ratchet hoist (3 ton)	1		
3.20 Lever hoist	1		
3.21 Static shunt	1		
3.22 Spiral link stick	1		
3.23 Leakage current monitor	1		
3.24 Hot stick tester	1		
3.25 Strainer gauge	2		
3.26 Crip-all clamp stick	1		
3.27 Conductor cutter	1		
3.28 Tool rack stand	2		
3.29 Ground sheet	1		
4. Equipment Require			
4.1 Fire Extinguisher (min. 9kg) per vehicle	1		
4.2 First Aid Kit (Team size) per vehicle	1		
4.3 Wind speed meter	1		
4.4 Stick tester	1		
4.5 Infrared Scanner	1		
4.6 Road Cones	6		
4.7 Silicon and cotton cloth			

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4.8 Toolbox with relevant tools inside	1		
4.9 Chain Saw	1		
5. Personal Protective Equipment required:	Minimum per person	Quantity	Remarks
5.1 Conductive Suits	1 pair	2	
5.2 Conductive boots	1 pair	7	
5.3 Conductive gloves and socks	1 pair	7	
5.4 Safety Leather Gloves per person	1 pair		
5.5 Safety Helmet with chin strap type	1		
5.6 Safety Boots (SABS Approved) Must have steel tip / cap	1 pair		
5.7 Safety Clothing per person – 100% Cotton (No Short Pants or Short Sleeve Shirts allowed)	1 set		
5.8 PPE for chainsaw	Set		
5.9 Safety sunglasses	1 pair		
5.10 Sun Block	1		
5.11 FAS and bag	1		

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