

 Eskom	Scope of Work	Engineering
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Title : **SOW for the Supply and Delivery of Lubricants at Kendal Power Station as and when required basis for a period of 5 years.**

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1. Introduction

This contract scope of work is for Supply and delivery of Lubricants at Kendal Power Station. It is also to ensure that all required lubricants available and kept at maximum stock level at all times during the contract period.

1.1 Scope

1.1.1 Purpose

The purpose of the document is to provide the scope and technical requirements for the supply of lubricants.

1.1.2 Applicability

This document shall apply throughout Kendal Power Station.

1.1.3 Effective date

This document is effective from the date of authorization.

1.2 Normative/Informative References

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

1.2.1 Normative

- [1] ISO 9001 Quality Management Systems
- [2] 240-56063930 Eskom for girth gear lubrication
- [3] 240-56064766 Eskom standard specification for general purpose greases
- [4] GSP 36-53 Eskom Guideline for the in-service monitoring of lubricating and hydraulic fluids
- [5] 240-56063930 Eskom Specification for mill girth gear lubricants
- [6] 240-56063935 Eskom Specification for Steam Turbine Oils
- [7] 240-56064555 Eskom Specification for Extreme Pressure Gear oils
- [8] 240-56064565 Eskom Specification for R&O hydraulic Oils
- [9] 240-56064567 Eskom Specification for HVI Hydraulic Oils
- [10] 240-56064571 Eskom Specification for AW Hydraulic Oils
- [11] 240-56063943 Eskom Specification for Petrol Engine Oils
- [12] 240-56064544 Eskom Specification for Diesel engine Oils

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[13]ISO 10005 Quality Management Systems – Guidelines for Quality Plans

[14]QM 58 – Supplier Contract Quality Requirements Specifications

1.2.2 Informative

[15]ISO 14001:2004 Environmental Management Systems

[16]ISO 900:2008 Quality Management Systems – Fundamentals and Vocabulary

[17]*1017401 Kendal Integrated Risk Management Procedure

[18]*1018332 Kendal Environmental Management Procedure for contractors work instruction

[19]QM-15: Supplier Assessment Procedure

1.3 Definitions

Contract Quality Plan: a document of the supplier's process for delivering the level of quality required by the contract. It is a framework for the contractor's process for delivering quality. Purpose of a CQP is to outline how the results defined in the specifications will be achieved.

Hold Point: a predetermined stage in the quality control plan (QCP) beyond which work/manufacturing shall not proceed without the attendance of, and written authorisation of, an Eskom representative or Eskom inspection agency, whichever is applicable.

Intervention Points: those control points indicated by the various controlling bodies concerned with the implementation of a specific QCP/ ITP. These can be in the form of inspection, hold points, surveillances, witnesses, reviews and verifications.

Quality Plan: document specifying which processes, procedures and associated resources will be applied by whom and when, to meet the requirements of a specific project, product, process or contract.

Quality Control Plan: a document specifying the activities to be inspected throughout the execution of the project, inclusive of test methods, procedures, and acceptance criteria.

Requirement: the need or expectation that is stated, generally implied, or obligatory. Requirements are generally specified in the purchase order and/or contract documentation, but may not be limited to these.

Supplier: is a current or potential supplier, vendor, contractor, consultant, or service provider. A supplier may be a natural or legal person and includes any employee acting within the course and scope of his/her employment or any agent or manager acting for, or on behalf of, or in the interests of, the person registered as supplier on the Eskom supplier database.

Witness Point: a predetermined stage in the quality control plan where and inspection activity will take place. Work may proceed, provided Eskom or its inspection agency has been formally notified and confirmed that inspection is waived.

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1.4 Abbreviations

Abbreviation	Explanation
C	Celsius
DEG	Degrees
kg	Kilograms
L	Liters
NCR	Non Conformance Report
P/N	Part Number
OD	Outer Diameter
QA	Quality Assurance
QC	Quality Control
QCP	Quality Control Plan
SOW	Scope of Work

1.5 Roles and Responsibilities

- 1.5.1 The relevant plant System Engineer (SE) is the plant owner responsible for compiling the scope of work, specifying technical/functionality requirements for this SOW.
- 1.5.2 The System Engineer and the Quality Controller ensures that the goods are supplied in accordance with applicable specified standards.
- 1.5.3 The *Supplier* is responsible to manage and administer the execution of the approved scope of work.
- 1.5.4 The Supplier supplies the goods per the requirements of this SOW and adheres to all specified standards.

1.6 Process for Monitoring

N/A

1.7 Related/Supporting Documents

N/A

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2. The Suppliers Scope

2.1 General Requirements

- a) Supply and deliver lubricants to Kendal Power Station on an as an when required basis
- b) Supplier shall have adequate capacity to supply and deliver required lubricant as per official contract for Kendal Power Station on an as and when required basis
- c) The supplier shall ensure that correct items are delivered to site as per specification
- d) Supplier shall ensure that all lubricants are delivered with its relevant detail specification and datasheet
- e) Supplier to ensure that all orders for specified lubricants are delivered within 7 working days
- f) Supplier to ensure that all emergency orders for lubricants required shall be delivered within 24 hours upon notice
- g) Its shall remain the responsibility of the supplier to ensure that the required items are delivered to site
- h) All quality control processes to be followed by the supplier at their facility
- i) Any oil and lubricant shall be handled with care and according to the handling and safety instructions to be supplied by the lubricant supplier

2.2 Detailed Scope of Work

2.2.1 Supply

No.	Material Number	Description	Quantity
1	0784557	OIL: TYPE: HYDRAULIC OIL; RATING: 250 DEG C; CONTAINER: 210L; OEM P/N: S3M100; HYDRAULIC OIL DENSITY 875KG/M3 FLASH POINT 250DEG CELCIUS VISCOSITY AT 100C 11.4CST HYDRAULIC OIL USED FOR OPERATING TURBINE VALVES ELECTROHYDRAULIC ACTUATOR SYSTEM ONLY OIL OF CLASS ISO VG100 IN ACCORDANCE DIN 51 519 AND ONLY ZINC FREE TECHNOLOGY OIL ARE PERMITTED TO BE USED	5 000L
2	247130	GREASE: TYPE: OPEN GEAR; CONTAINER: DRUM 180 KG; FORM OIL, FOR USE ON MILL GIRTH GEAR, TO CONFORM TO ESKOM SPECIFICATION 36-804 LATEST REVISION FOR TUBE MILL GIRTH	199 980KG

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		GEAR LUBRICANTS, COLOR: BLACK, 10 TO 100 DEG C	
3	231631	OIL: TYPE: TURBINE; RATING: ENGEN SUPERTURB 46; CONTAINER: DRUM 210 L; GROUP 2 ASHLEY TYPE ISOVG46; MEETING SPECIFICATION GGSS0865; STOCK MANAGEMENT: FIRST-IN-FIRST-OUT; EXPECTED SHELF LIFE IS 2 YEAR, MATCODE 15875	400 000L
4	227340	OIL, INDUSTRIAL: CONTAINER: BULK 35000 L; FLASH POINT: 230 DEG C; TYPE: TURBINE; TRADE NAME: TURBINE 46; VISCOSITY RATING: 44 MM2/S AT 40 DEG C; 6.8 MM2/S AT 100 DEG C; DENSITY: 0.86 KG/L AT 15 DEG C; REFERENCE NO: ISO VG46 ASTM D7155; PROPERTIES FOR NEW UNIT AS FOLLOWS, VISCOSITY ASTM D 445, ASTM D 92, ASTM D 92, POUR POINT -30 DEG C, ASTM D 97, ASTM D 1298, AND VISCOSITY INDEX 113, ASTM D 2272, MATERIAL SAFETY DATA SHEET MSDS TO BE SUPPLIED ISO VG46 CURRENT BRAND IN USE IS ENGEN SUPERTURB 46 USE OF AN ALTERNATE BRAND REQUIRES THE SUPPLIER TO PROVIDE A COMPATIBILITY ANALYSIS REPORT WITH NEW OILS AND USED OIL AS PER ASTM D7155	205 904L
5	222118	OIL, AUTOMOTIVE: TYPE: DIESEL ENGINE; GRADE: SAE30; CLASS: CF/SF; CONTAINER: DRUM 210 L; TRADE NAME: DIESEL SIGMA HD30; SUPPL P/N: DIESELUBE 530	15 000L
6	212745	OIL, INDUSTRIAL: CONTAINER: 210 L; FLASH POINT: 208 DEG C; TYPE: TURBINE; TRADE NAME: CASTROL PERFECTO THZ32; VISCOSITY RATING: 32 AT 40 DEG C; SUPPL P/N: PERFECTO THZ 32; CHEMICALS TO BE SUPPLIED WITH MSDS AND SECTION 12 (ECOLOGICAL INFORMATION OF THE MSDS TO BE COMPLETED IN DETAIL) WITH EVERY DELIVERY	299 880L
7	194331	SOLVENT: TYPE: ELECTRICAL CLEANER; CONTAINER: 25 L; SUPPL P/N: FO655; MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT, ENVIRO	50 000L
8	161550	OIL, INDUSTRIAL: CONTAINER: DRUM 210 L; FLASH POINT: 232 DEG C; TYPE: GEAR; TRADE	200 000L

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		NAME: GENGEAR 320; VISCOSITY RATING: 305 AT 40 DEG C; GRADE: ISO VG320; SUPPL P/N: GENGEAR 320; ESKOM SPECIFICATION GGSS 0862; LUBE CODE OGI-320; GENGEAR 320	
9	161497	OIL, INDUSTRIAL: CONTAINER: DRUM 210 L; TYPE: GEAR; TRADE NAME: GENGEAR 220; GRADE: ISO VG220; SUPPL P/N: GENGEAR 220; ESKOM SPECIFICATION GGSS 0862; LUBE CODE OGI-220; 5133	200 550L
10	161326	GREASE: TYPE: MULTI PURPOSE; CONTAINER: DRUM 15 KG; TRADE NAME: SPEEROL EP2; REFERENCE NO: SPEEROL EP2; NOTE: TEST CERTIFI- CATES REQUIRED WITH ALL BATCH DELIVERIES	19 000KG
11	161320	OIL, INDUSTRIAL: CONTAINER: DRUM 20 L; TYPE: HYDRAULIC; GRADE: ISO VG46; SUPPL P/N: TQH 20/46; 5028; ESKOM SPECIFICATION GGSS 0867	23 000L
12	161319	OIL, INDUSTRIAL: CONTAINER: DRUM 20 L; TYPE: HYDRAULIC; GRADE: ISO VG68; SUPPL P/N: 5270; TQH 20/68; ESKOM SPECIFICATION GGSS 0867	50 500L
13	161317	OIL, INDUSTRIAL: CONTAINER: DRUM 20 L; TYPE: HYDRAULIC; GRADE: ISO VG32; SUPPL P/N: 5025; TQH 20/32; ESKOM SPECIFICATION GGSS 0867	19 536L
14	161309	OIL, AUTOMOTIVE: TYPE: DIESEL ENGINE; GRADE: SAE30; CLASS: CF/SF; CONTAINER: DRUM 20 L; TRADE NAME: DIESEL SIGMA HD30; FLASH POINT: 218 DEG C; SUPPL P/N: DIESELUBE 530; POUR POINT -18 DEG C	10 500L
15	161307	OIL, INDUSTRIAL: CONTAINER: DRUM 20 L; TYPE: GEAR; GRADE: ISO VG460; SUPPL P/N: 5370; ESKOM SPECIFICATION GGSS 0862; SUPPLIER DESCRIPTION: GEN GEAR 460	10 500L
16	161306	OIL, INDUSTRIAL: CONTAINER: DRUM 210 L; TYPE: GEAR; GRADE: ISO VG460; SUPPL P/N: 5369; ESKOM SPECIFICATION GGSS 0862; SUPPLIER DESCRIPTION: GEN GEAR 460	9 000L
17	161305	OIL, INDUSTRIAL: CONTAINER: DRUM 20 L; FLASH POINT: 232 DEG C; TYPE: GEAR; VISCOSITY RATING: 305 AT 40 DEG C; GRADE: ISO VG320; SUPPL P/N: 5367; ESKOM SPECIFICATION GGSS 0862; SUPPLIER DESCRIPTION: GEN GEAR 320	100 000L

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18	157675	SOLVENT: TYPE: EMULSION DEGREASER; CONTAINER: DRUM 25 L; COLOR: GREEN PALE; TRADE NAME: SOLVEX; SUPPL P/N: ICE113; REFERENCE NO: 45011; ENGINE CLEANER IS A GENERAL-PURPOSE EMULSION DEGREASER APPROVED TO SABS 1216 TYPE1; MUST CONTAIN SELECT EMULSIFIER FOR THE REMOVAL OF OIL; GREASE; DIRT AND GRIME FROM METAL SURFACES; EITHER BY IMMERSION SPRAY OR BY HAND APPLICATION; (1) SOLVENT BASE; (2) DENSITY 20 C = 0.813; (3) PH(10PCT SOLUTION) = 8.7; (4) FLASH POINT C MINIMUM(IP303) = 43; MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT; MSDS TO BE SUPPLIED AS PART OF THE TENDER; NO SUBSTANCES AND/OR INGREDIENTS THAT FALL UNDER THE TABLE 1 CATEGORY OF THE HAZARDOUS CHEMICAL SUBSTANCES WILL BE USED; ANY CHEMICAL FALL UNDER TABLE 3 OF THE SAME REGULATIONS SHALL NOT BE USED WITHOUT THE PRIOR PERMISSION OF THE MEDICAL CENTRE AND SAFETY RISK; CHEMICALS SHALL BE BIODEGRADABLE AND OZONE FRIENDLY; A COPY OF THE MSDS FOR CHEMICALS	26 500L
19	249122	OIL, AUTOMOTIVE: TYPE: DIESEL ENGINE; GRADE: SAE40; CONTAINER: DRUM 20 L; REFERENCE NO: SAE 40	4 000L
20	161535	GREASE, INDUSTRIAL: TYPE: GENERAL PURPOSE; TEMPERATURE RATING: 130 DEG C; COLOR: BROWN LIGHT; CONTAINER: 18 KG; PHYSICAL FORM: SEMI SOLID; GRADE: NLGI 2; TRADE NAME: ALVANIA RL2; SUPPL P/N: S2 V100 2; ESKOM SPECIFICATION GGSS 0894, LUBE CODE GPG-2LKXEP; MATERIAL SAFETY DATA SHEETS WITH ENVIRONMENTAL INFORMATION IN THE 16 POINT FORMAT TO BE PROVIDED WITH EVERY DELIVERY AS REQUIRED BY THE OCCUPATIONAL HEALTH AND SAFETY ACT; GADUS	2 000KG

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21	161330	OIL, INDUSTRIAL: CONTAINER: DRUM 20 L; FLASH POINT: 204 DEG C; TYPE: GEAR; TRADE NAME: ENGEN GENGEAR 68; VISCOSITY RATING: 68 AT 40 DEG C; GRADE: ISO VG68; SUPPL P/N: GENGEAR 68; ESKOM SPECIFICATION GGSS 0862; LUBE CODE OGI-68; GENGEAR 68	3000L
22	161406	GREASE, INDUSTRIAL: TYPE: WATER RESISTANT; TEMPERATURE RATING: -20 TO 150 DEG C; COLOR: BLUE AMBER; CONTAINER: CAN METAL 25 L; GRADE: LGI 2; SUPPL P/N: STRUB 1907	250L
23	161491	CUTTING FLUID: LUBRICANT TYPE: SOLUBLE OIL; FORM LIQUID, CONTAINER 20 L DRUM	500L
24	611873	OIL, INDUSTRIAL: CONTAINER: DRUM 25 L; FLASH POINT: 232 DEG C; TYPE: SYNTHETIC COMPRESSOR OIL; TRADE NAME: LUBEST GARNETT 11 RECIPROCATING; VISCOSITY RATING: 120 AT 40 DEG C; 18KV COMPRESS	600L
25	768523	OIL: TYPE: HEAT TRANSFER FLUID; RATING: 8 T	120L

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2.2.2 Preservation

Develop and implement a comprehensive preservation technique consisting of plans, processes, procedures, and actions to be undertaken to preserve the lubricants for shell life. The preservation techniques shall address protection against, atmospheric conditions, sunlight, temperature, dust, humidity, corrosive atmospheres, or other physical environment conditions.

2.3 Functionality requirements

Refer to Tender Technical evaluation strategy

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3. Safety, Health and Environmental Requirements

3.1 Health and Safety Requirements

The Contractor must comply with the Occupational Health and Safety Act of 1993, the Employer's Plant Safety Regulations OPR 3305, Operating Regulation for High Voltage Systems ESHARAAAG4 and any other safety procedures issued by the Employer.

This includes the following:

- a) Occupational Health and Safety Act 37(2) – Agreement Form
- b) Eskom SHEQ Policy, 32-727
- c) Eskom Vehicle and Drivers Safety, 32-93
- d) Eskom Vehicle Safety Specification, 32-345
- e) Eskom Substance abuse, 32-37
- f) Eskom Life Saving Rules, 32-421
- g) Eskom Incident Management Procedure, 32-95
- h) Eskom Smoking Procedure, 32-36
- i) Eskom Medical Surveillance Procedure, 32-282
- j) Eskom SHE requirements, 32-726 (Annexure B and C)

The Supplier must ensure that all contractor employees attend the Employer's Health and Safety Induction Course free of charge prior to commencement of any work. The course is usually presented at the power station by the Education and Training Department (ETD), Monday to Friday and normally from 09:00 to 11:00. This is a two (2) hour course and is valid for the duration of one (1) year

3.2 Environmental Requirements

The Supplier must ensure that all goods supplied conform to all the applicable environmental legislation and where necessary dispose these substances in accordance with the applicable requirements.

- a) The Contractor shall comply with the environmental criteria and constraints as supplied by the Employer's representative.
- b) SHEQ File requirements
- c) The contractor shall comply with the Environmental Management Procedure for contractors work instruction *1018332

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4. Quality Management

4.1 General

- a) The *Contractor* complies with the *Employer's* quality and technical requirements including those listed in the *Employer's* Supplier Quality Management Specification document 240-105658000
- b) The *Contractor* submits a QMS as a returnable schedule and uses it for all phases of the Project. The QMS complies with the requirements of ISO 9001 standard and category 2 of the *Employer* Supplier Quality Management Specification 240-105658000 (QM58). The *Contractor* provides evidence of a fully implemented QMS as and when requested by the *Employer*. The *Employer* will carry out an audit on the *Contractor* and the *Contractor's* Subcontractors when necessary.

4.2 Quality Management documents requirements

The *Supplier* submits the following documents, within 30 days of the Contract Date, to the *Employer* for review and acceptance and prior to the commencement of work

The *Supplier* will supply the *Employer* with a QCP which will detail the *Supplier's* organisation, quality assurance and quality control procedures specific to this project. The QCP must be aligned to, and reference ISO 10005:2005 QMS, guidelines for quality plans and in compliance with the guideline in QM 58. The QCP will make reference to the *Contractor's* QMS Procedures to be used in this Contract:

- a) The *Contractor's* QMS compliance with the requirements of ISO 9001
- b) *Contractor's* quality manual
- c) *Contractor's* quality procedures
- d) *Contractor's* quality forms and work instructions
- e) *Contractor's* quality system documents referenced in this *Works*
- f) *Information*

The *Supplier* supplies the *Employer* with a QCP for review and acceptance.

The *Supplier* supplies the *Employer* with a detailed contract organogram showing the quality personnel to be used in the contract. The *Supplier* provides CVs of the quality management employees who will be responsible for quality.

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Quality Management employee's responsibilities include but are not limited to the following:

- a) Implementation of the QMS
- b) Administration of QA/QC systems
- c) Verification of approval status of Subcontractor's QCP and procedures
- d) On-and -offsite inspections
- e) Co-ordination, inspection and verification of the *Employer's* intervention points
- f) Review of contractor testing and inspection documents (procedures, test results)
- g) Reporting on quality performance

The *Supplier* submits as a minimum the following documents, as required by the *Employer*, which requirement does not constitute a compensation event, during the term of the contract:-

- a) Updated QCP register
- b) Inspection notifications accompanied by their inspection report
- c) Non-conformance and Defects registers and reports
- d) Updated Site and off site inspection schedules.
- e) Inspection dates.
- f) Inspections completed/outstanding.
- g) Inspection and test reports
- h) Monthly contract quality progress report
- i) Data books for the completed *Works*

4.3 Quality Responsibility

- c) The *Supplier* is accountable for the quality of the output and liable for any failures.
- d) The *Supplier* is responsible for defining the level of intervention of QA/QC or inspections.
- e) The *Supplier* is responsible for defining the level of intervention of QA/QC or inspections to be imposed on his sub-contractors, suppliers and sub-suppliers and must ensure that these are in line with the *Employer's* requirements.
- f) The intervention requirements take into consideration the criticality of the plant.

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- g) The interventions points include all witness, hold, verification and review points required by the *Employer*. The *Suppliers* failure to allow the intervention points will constitute a non-conformance.

4.4 Tender Returnable quality requirement

Quality requirement: Category 2 of Eskom Supplier Quality Management Specification QM 58 240-105658000:

- The *Contractor* shall complete and sign **Form A** (Enquiry/Contract/Quality Requirements for QM 58 and ISO 9001).
- The *Contractor* shall submit objective evidence of a developed and implemented QMS that complies with ISO 9001 or any applicable standard of quality management system (the latest applicable revision). The following documents (approved copies) shall be submitted:
 - Quality Management System manual or a document that have defines and describes the QMS and its scope
 - Quality Policy
 - Quality Objectives
 - Control of documented information
 - Records required by ISO 9001 standard (List of Records)
 - Internal audit procedure
 - Control of non-conformity outputs
 - Nonconformity and Corrective action procedure
- The *Contractor* shall submit the latest copy of an internal management system audit reports. The audit reports must include, if applicable, nonconformity identified, and the resulting remedial actions (correction and/ or corrective action reports).
- The *Contractor* shall submit a **draft contract quality plan** that is specific to the scope of work as described in the tender documents. The plan must address the minimum requirements as per ISO 10005.
- The *Contractor* shall submit an example of **inspection and test plan (ITP) or quality control plan (QCP)** on similar or previous work done. The plan must address the minimum requirements as per ISO 10005 (if applicable).
- The *Contractor* shall submit documented information for Control of Externally Provided Processes, Products and Services.
- The *Contractor* shall submit a copy of documented information for roles, responsibilities and authorities.

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5. Acceptance

This document has been seen and accepted by:

Name	Designation
S. Nhlapo	Turbine Engineering Manager
P Takane	Engineering Manager

6. Revisions

Date	Rev.	Compiler	Remarks
June 2026	00	R. Nkosi	Final document

7. Development Team

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

- Raymond Nkosi
- Sipho Nhlapo

8. Acknowledgements

- N/A

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