

	Supply and Delivery of Centrifugal Pumps SHE SPECIFICATION	Template Identifier	240-73418055	Rev	2
		Document Identifier	XXX-XXXXXX	Rev	2
		Effective Date	20 February 2016		
		Review Date	February 2023		

Project Name: Supply and Delivery of Electrical Consumable Spares

Project Address: *Kusile Power Station, R545 Kendal/Balmoral Road, Haartebeesfontein Farm, Witbank 1035*

Scope of the project: Supply and Delivery of Electrical Consumable Spares

Eskom Contract's Manager

Eskom's Health and Safety Manager

Eskom's Procurement Manager

Eskom's Safety Officer

Eskom's Quality Manager (Acting)

Eskom's Environmental Manager

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		Effective Date	20 February 2016		
		Review Date	February 2023		

CONTENTS

1. INTRODUCTION
2. SUPPORTING CLAUSES	.....
2.1 SCOPE	.....
2.2 NORMATIVE/INFORMATIVE REFERENCES	.....
2.3 ABBREVIATIONS	.....
2.4 RELATED/SUPPORTING DOCUMENTS	.....
3. DOCUMENT CONTENT	.....
3.1 SCOPE OF WORK	.....
3.2 LEGAL COMPLIANCE	.....
3.3 APPOINTMENTS	.....
3.5 RISK ASSESSMENTS	.....
3.6 INCIDENT INVESTIGATION
3.7 EMERGENCY MANAGEMENT
4. AUTHORIZATION
5. REVISIONS

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1. INTRODUCTION

Eskom Kusile Power Station's responsibility and commitment is to ensure a safe working environment is in line with its Safety, Health, Environmental and Quality Policy, along with legislative obligations.

This SHE specification is Eskom Kusile Power Station's minimum requirements which are required to be met for the specific contract and for the duration of the contract period by contractors and where required, the delivery organisation.

Eskom in no way assumes the contractor's legal responsibilities. The contractor is and remains accountable for the quality and the execution of his/her health and safety programme for his/her employees and appointed contractor employees.

This SHE specification reflects minimum requirements and should not be construed as all encompassing.

Note 1: All the requirements listed hereunder are in relation to the contract and do not supersede or replace any organizational SHE requirements.

Note 2: In terms of Eskom requirements, a section of this professional contract falls within the requirements of the Construction Regulations.

Although there are requirements listed in this specification that do not pertain directly to air charter, the requirements are expect of an air charter contractor business to conform to. These requirements are in line with Eskom's Zero Harm value.

Where requirements listed are already in place, then the organisational requirements must be taken cognisance of and listed in the respective SHE plans. If there are any additional Eskom and or legislative requirements listed in the SHE specification, then these must be addressed.

2. SUPPORTING CLAUSES

2.1 SCOPE

This SHE specification lists the legislative and Eskom requirements and where applicable, any requirements pertaining to Local Authorities / Municipal by-laws / Environmental legislation that must be met by the contractor.

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2.1.1 Purpose

To indicate OHS requirements applicable to the supply and delivery of spares to Kusile Power Station

2.1.2 Applicability

This SHE specification is applicable to all suppliers to supply and deliver goods to Kusile Power Station

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] Basic Conditions of Employment Act No 75 of 1997.
- [2] Occupational Health and Safety Act and Regulations No 85 of 1993.
- [3] National Environmental Management Act 107 of 1998.
- [4] National Road Traffic Act 93 of 1996.
- [5] 32-37 Eskom Substance Abuse Procedure.
- [6] Civil Aviation Act 13 of 2009.
- [7] Air Services Licence Act 115 of 1990.

2.2.2 Informative

- [8] 32-726 Contracts and Contractor OHS Management Standard
- [9] 240-62196227 Eskom Life Saving Rules
- [10] Tobacco Products Control Act 83 of 1993 (Updated 2011.05.19)
- [11] SANS 1186 Symbolic Safety Signs
- [12] Constitution of the Republic of South Africa No 108 of 1996
- [13] 32-95 Eskom Procedure Manual for Performing Occupational Health & Safety Management: Conducting EH&S Incident Management,

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Definitions

Definition	Explanation
Appointed contractor	Means a contractor appointed by the principal contractor
Baseline risk assessment	(32-520) baseline operational risks refer to the health and safety risks associated with all standard processes and routine activities in the business
Client	Eskom representative (Internal – Asset Owner), also referred to as the contract administrator/custodian or agent or project manager (as defined in the contract). He/she is the person responsible for ensuring that the works or services are executed in terms of the contract, as well as adherence to legislation pertaining to the contract.
Competent person	(OHS Act) means any person having the knowledge, training, experience, and qualifications, specific to the work or task being performed, provided that, where appropriate, qualifications and training are registered in terms of the South African Qualifications Authority Act, 1995 (Act No. 58 of 1995)
Contractor – includes appointed contractor	means an employer as defined in section 1 of the Act who performs contract work and includes principal contractors
Consultant	means a person providing professional advice
Duty of care to the environment	(32-136) anybody who causes or has caused or may cause significant pollution or degradation of the environment must take reasonable measures to prevent such pollution or degradation from occurring, continuing, or recurring. If such harm to the environment is authorised by law or cannot reasonably be avoided or stopped, such person must minimise and rectify such pollution or degradation of the environment
Employee	(OHS Act) means, subject to the provisions of subsection (2), any person who is employed by or works for an employer and who receives or is entitled to receive any remuneration or who works under the direction or supervision of an employer or any other person
Employer	(OHS Act) means, subject to the provisions of subsection (2), any person who employs or provides work for any person and remunerates that person or expressly or tacitly undertakes to remunerate him/her, but excludes a TES (ex labour broker) as defined in section 1(1) of the Labour Relations Act 1956 (Act No. 28 of 1956)
Eskom requirements	a) Eskom requirements flowing from directives, policies, standards, procedures, specifications, work instructions, guidelines, or manuals
Hazard	(OHS Act) means a source of, or exposure to, danger
Hazard identification	(OHS Act) means the identification and documenting of existing or expected hazards to the health and safety of persons, which are normally associated with the type of construction work being executed or to be executed
Health and safety file	(OHS Act) means a file or other record, containing the information in writing required by the construction regulations.
Health and safety plan	(OHS Act) means a site, activity or project specific document plan in accordance with the client's health and safety specifications.
Health and safety specification	(OHS Act) means a site, activity or project specific document prepared by the client pertaining to all health and safety requirements related to construction work.

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Health and safety requirements	means comprehensive health and safety requirements for a contract, project, site, and scope of work. This specification is intended to ensure the health and safety of persons, both workers and the public, and the duty of care to the environment. The health and safety requirements must be specific to each contract, project, site, and scope of work
Medical certificate of fitness	(OHS Act) means a certificate specific to the work to be performed and issued by an occupational health practitioner in the form of Annexure 3 of the construction regulations.
Medical surveillance	(OHS Act) means a planned programme or periodic examination (which may include clinical examinations, biological monitoring, or medical tests) of employees by an occupational health practitioner or, in prescribed cases, by an occupational medicine practitioner
Method statement	(OHS Act) means a written document detailing the key activities to be performed in order to reduce, as reasonably as practicable, the hazards identified in any risk assessment
Organisation	may be defined as a group of individuals (large or small) that is cooperating under the direction of executive leadership in accomplishment of certain common objects
Pre-job meetings	(34-227) means a meeting that is held prior to the commencement of the day's work and that is attended by all the relevant employees associated with the work task
Principal contractor	(In the text of this document) Means an employer, as defined in section 1 of the OHS Act, who intends to tender for or has signed a contract with Eskom for services rendered.
Provincial director	(OHS Act) means the provincial director as defined in Regulation 1 of the General Administrative Regulations under the Act
Responsible Manager	Is a Manager of a department, section or operating/business unit who has been appointed as part of the Eskom delegation of authority process with the aim to assist the applicable 16(2) assigned person in executing his/her duties in terms of the Occupational Health and Safety Act
Risk assessment	(OHS Act) means a programme to determine any risk associated with any hazard at a construction site in order to identify the steps needed to be taken to remove, reduce, or control such hazard.
Site	(34-228) means an Eskom department, unit, complex, building, specific project, work site, or the site where agents, clients, principal contractors, contractors, suppliers, vendors, and service providers provide a service to Eskom, directly or indirectly
Service provider	any private person or legal entity that provides any service(s) to Eskom for compensation
Task	(34-227) a segment of work that requires a set of specific and distinct actions for its completion
Toolbox talks	(34-227) where the team leader, after conducting pre-task planning, shares all the tasks at hand and discusses task allocation, the identified risks, and the control measures with all his/her team members on site before commencing a specific task and documenting the agreed strategy. (This shall be done to ensure common understanding of the tasks, risks, and control measures required.)

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		Document Identifier	XXX-XXXXX	Rev	2
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The Act	(OHS Act) means the Occupational Health and Safety Act No. 85 of 1993, as amended, and the Regulations thereto
Visitor	any person visiting a workplace with the knowledge of, or under the supervision of, an employer.

2.3 Abbreviations

Abbreviation	Description
BU	Business Unit
CE	Chief Executive
COID Act	Compensation for Occupational Injuries and Diseases Act
CR	Construction Regulations
DMR	Driven Machinery Regulations
DoL	Department of Labour (Inspection and Enforcement services – Provincial office)
EP	Emergency Preparedness
EAP	Employee Assistance Program
ERfW	Environmental Regulations for Workplaces
GAR	General Administrative Regulations
GSR	General Safety Regulations
HCS	Hazardous Chemical Substances
LDV	Light Delivery Vehicle
MSDS	Material Safety Data Sheets
NEMA	National Environmental Management Act
OHS Act	Occupational Health and Safety Act and Regulations, 85 of 1993
SABS	South African Bureau Standard
SANS	South African National Standard

2.5 Related/Supporting Documents

Eskom OHS Act section 37 (2) agreement (to be completed by the contract responsible manager).

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3. Specification

3.1 Scope of work

A copy of the scope of works must be retained by the contractor.

Note: The contractor who will be awarded this contract will be known as the “principal contractor” and any contractor appointed by the principal contractor will be known as the “appointed contractor”.

Item no	Material Number	Detailed Description
1	0044207	GLAND, PACKING: DIMENSIONS: ID 78 X OD 110 X WD 46 MM; TYPE: PUMP; MATERIAL: CI; MODEL NO: 150/5, UNK; REFERENCE NO: 150/2705/76, UNK; SUPPL P/N: 452; FOR KSB
2	0576757	PUMP, CENTRIFUGAL: NPSH: 0.24 BAR; CAPACITY: 5-60 LPS; TOTAL HEAD: 130 KPA; SIZE: 160 MM; SPEED: 460 RPS; STAGE: 1; DRIVER: INDUCTION MOTOR - 3.8KW; 400V; 4 POLE; 1435RPM; W21 112M; TYPE: TRANSFORMER OIL CIRCULATION PUMP; SPECIFICATION: IEC34-1; MOUNT: FLANGE; REFERENCE NO: 107839-1; SUPPL P/N: VMOA 100 218-C A C 3 F
3	0620314	PUMP, CENTRIFUGAL: NPSH: 3.6 M; CAPACITY: 169 M3/HR; TOTAL HEAD: 39 M; SIZE: 150 MM; SPEED: 1457 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: SUBMERSIBLE, SLURRY; MOUNT: VERTICAL; MODEL NO: HS-5150.350MT
4	0620322	PUMP, CENTRIFUGAL: NPSH: 3.5 M; CAPACITY: 169 M3/HR; TOTAL HEAD: 28 M; SIZE: 100 MM; SPEED: 1475 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: SUBMERSIBLE, SLURRY; MOUNT: VERTICAL; MODEL NO: HS-5150.300MT
5	0620323	PUMP, CENTRIFUGAL: NPSH: 3.5 M; CAPACITY: 169 M3/HR; TOTAL HEAD: 34 M; SIZE: 100 MM; SPEED: 1480 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: SUBMERSIBLE, SLURRY; MOUNT: VERTICAL
6	0620351	PUMP, CENTRIFUGAL: NPSH: 0 M; CAPACITY: 147 GPM; TOTAL HEAD: 98.5 FT; SIZE: 6 X 3 IN; SPEED: 1450 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: SINGLE SPLIT CASING; MOUNT: BOLTED; DRAWING NO: 5142P-1 REV 0; FOR USE ON STEAM FEED PUMP CONDENSATE EXTRACTION PUMP AT UNIT 1-4

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		Review Date	February 2023		

7	0620430	PUMP, CENTRIFUGAL: NPSH: 1.62 M; CAPACITY: 32 LPS; TOTAL HEAD: 12.2 M; SIZE: 152 X 152 MM; SPEED: 1020 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: RAW SEWAGE; MOUNT: HORIZONTAL; SHAFT DIAMETER: 38.1 MM; REFERENCE NO: 0212091425-259N; TO BE SUPPLIED WITH OEM MANUAL; DATA SHEET; GENERAL ARRANGEMENT DRAWINGS AND SPARE PARTS LIST
8	0620431	PUMP, CENTRIFUGAL: NPSH: 2.4 M; CAPACITY: 130 M3/HR; TOTAL HEAD: 12 M; SIZE: 125 X 100 MM; SPEED: 1450 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: FILTER SUPPLY; MOUNT: HORIZONTAL; SHAFT DIAMETER: 38.1 MM; REFERENCE NO: 9372521-547; TO BE SUPPLIED WITH OEM MANUAL; DATA SHEET; GENERAL ARRANGEMENT DRAWINGS AND SPARE PARTS LIST
9	0620967	PUMP, CENTRIFUGAL: NPSH: 4.3 M; CAPACITY: 492 M3/HR; TOTAL HEAD: 67 M; SIZE: 200 X 150 MM; SPEED: 1489 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: MAKE UP; SPECIFICATION: ISO 5199/EN 25199; MOUNT: HORIZONTAL; SHAFT DIAMETER: 55 MM; DRAWING NO: 0.90/37280 REV 0; MODEL NO: LS-150-500S1VL1-16004; APPLICATION: FLUE GAS DESULPHURIZATION RECYCLE WATER; SUPPLY DATA SHEET ON DELIVERY; GENERAL ARRANGEMENT DRAWING; OPERATING AND MAINTENANCE MANUAL
10	0620969	PUMP, CENTRIFUGAL: NPSH: 6.1 M; CAPACITY: 280 M3/HR; TOTAL HEAD: 84 M; SIZE: 150 X 125 MM; SPEED: 2950 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: SUPPLY; SPECIFICATION: ISO 5199/EN 25199; MOUNT: HORIZONTAL; SHAFT DIAMETER: 55 MM; DRAWING NO: 0.90/37330 REV 0; MODEL NO: LSN-125-330-S1VL1-13202; APPLICATION: MILL REJECT AND SUBMERGED SCRAPER CONVEYOR MAKE UP WATER SUPPLY; SUPPLY DATA SHEET ON DELIVERY; GENERAL ARRANGEMENT DRAWING; OPERATING AND MAINTENANCE MANUAL; DESIGN AND DRAWINGS REFER TO ESKOM DOCUMENT NUMBER: 203-9624
11	0623392	PUMP, CENTRIFUGAL: NPSH: 2 M; CAPACITY: 25 M3/HR; TOTAL HEAD: 30 M; SIZE: 50 X 32 MM; SPEED: 2880 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: 32-160; MOUNT: HORIZONTAL; REFERENCE NO: 396.096/7; 396.098/9; SUPPL P/N: 2125900X0X

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		Document Identifier	XXX-XXXXX	Rev	2
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12	0623393	PUMP, CENTRIFUGAL: NPSH: 3.8 M; CAPACITY: 1100 M3/HR; TOTAL HEAD: 64.4 M; SIZE: 300 X 250 MM; SPEED: 1473 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: CPK250-500; MOUNT: HORIZONTAL; REFERENCE NO: 506367/9; ON EVERY DELIVERY THE ITEM SHOULD HAVE THE FOLLOWING SUPPORTING DOCUMENTS: DRAWINGS; DATASHEET AND MANUAL
13	0623394	PUMP, CENTRIFUGAL: NPSH: 1.5 M; CAPACITY: 40 M3/HR; TOTAL HEAD: 30 M; SIZE: 65 X 40 MM; SPEED: 2890 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: MEGA-CHEM 40-160; MOUNT: HORIZONTAL; REFERENCE NO: 396.094/5; ON EVERY DELIVERY THE ITEM SHOULD HAVE THE FOLLOWING SUPPORTING DOCUMENTS: DRAWINGS; DATASHEET AND MANUAL
14	0623396	PUMP, CENTRIFUGAL: NPSH: 1.9 M; CAPACITY: 171 M3/HR; TOTAL HEAD: 40.87 M; SIZE: 125 X 100 MM; SPEED: 1475 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: 100-400; MOUNT: HORIZONTAL; REFERENCE NO: 396.100/2
15	0623397	PUMP, CENTRIFUGAL: NPSH: 1.2 M; CAPACITY: 35 M3/HR; TOTAL HEAD: 41.3 M; SIZE: 65 X 40 MM; SPEED: 2930 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: MEGA-CHEM 40-160; MOUNT: HORIZONTAL; REFERENCE NO: 396.060/1; ON EVERY DELIVERY THE ITEM SHOULD HAVE THE FOLLOWING SUPPORTING DOCUMENTS: DRAWINGS; DATASHEET AND MANUAL
16	0623400	PUMP, CENTRIFUGAL: NPSH: 2 M; CAPACITY: 300 M3/HR; TOTAL HEAD: 20.4 M; SIZE: 200 X 150 MM; SPEED: 1465 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: 150-315; MOUNT: HORIZONTAL; REFERENCE NO: 396.111/2
17	0623401	PUMP, CENTRIFUGAL: NPSH: 4.8 M; CAPACITY: 120 M3/HR; TOTAL HEAD: 40.8 M; SIZE: 100 X 125 MM; SPEED: 2940 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: 80-160; MOUNT: HORIZONTAL; REFERENCE NO: 396.109/10
18	0623402	PUMP, CENTRIFUGAL: NPSH: 3.8 M; CAPACITY: 560.5 M3/HR; TOTAL HEAD: 83.7 M; SIZE: 200 X 250 MM; SPEED: 1485 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: CPK200-500; MOUNT: HORIZONTAL; REFERENCE NO: 506385/7; ON EVERY DELIVERY THE ITEM SHOULD HAVE THE FOLLOWING SUPPORTING DOCUMENTS: DRAWINGS; DATASHEET AND MANUAL

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		Document Identifier	XXX-XXXXX	Rev	2
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		Review Date	February 2023		

19	0623406	PUMP, CENTRIFUGAL: NPSH: 4.3 M; CAPACITY: 180 M3/HR; TOTAL HEAD: 67 M; SIZE: 125 X 80 MM; SPEED: 2965 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: LSN125-80 250 S1VL1; MOUNT: HORIZONTAL; DRAWING NO: 203-9661 REV 0; SUPPL P/N: 61220402; ON EVERY DELIVERY THE ITEM SHOULD HAVE THE FOLLOWING SUPPORTING DOCUMENTS: DRAWINGS; DATASHEET AND MANUAL
20	0623407	PUMP, CENTRIFUGAL: NPSH: 4.6 M; CAPACITY: 450 M3/HR; TOTAL HEAD: 32 M; SIZE: 200 X 150 MM; SPEED: 1580 RPM; STAGE: 1; DRIVER: DIESEL ENGINE; SPECIFICATION: ETA 150-315(J); MOUNT: HORIZONTAL; REFERENCE NO: 9972286854/100; SUPPL P/N: 203-30156
21	0623408	PUMP, CENTRIFUGAL: NPSH: 1.2 M; CAPACITY: 171 M3/HR; TOTAL HEAD: 75.6 M; SIZE: 200 X 150 MM; SPEED: 1480 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: CPK150-500; MOUNT: HORIZONTAL; REFERENCE NO: 506388/90
22	0623409	PUMP, CENTRIFUGAL: NPSH: 7 M; CAPACITY: 160 M3/HR; TOTAL HEAD: 10.2 M; SIZE: 125 X 100 MM; SPEED: 1440 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: 100-200; MOUNT: HORIZONTAL; REFERENCE NO: 369.092/3
23	0623426	PUMP, CENTRIFUGAL: NPSH: 5.3 M; CAPACITY: 1120 M3/HR; TOTAL HEAD: 18.4 M; SIZE: 350 MM; SPEED: 985 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: MEGA-NORM 350-400; MOUNT: HORIZONTAL; REFERENCE NO: C03764/5; ON EVERY DELIVERY THE ITEM SHOULD HAVE THE FOLLOWING SUPPORTING DOCUMENTS: DRAWINGS; DATASHEET AND MANUAL
24	0623974	PUMP, CENTRIFUGAL: NPSH: 0; CAPACITY: 360 M3/HR; TOTAL HEAD: 42 M; SIZE: 200 X 150 MM; SPEED: 1024 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: SLURRY; MOUNT: HORIZONTAL; SHAFT DIAMETER: 70 MM; DRAWING NO: B114109-03-02-GM03-00060-00 REV 0; SUPPL P/N: LCC-M150-500.3ETDI; AGITATION PUMP EFFICIENCY: 77PCT; SHAFT SEAL: EXPELLER; BEARING LUBRICATION: ROLL/OIL; CASING SUPPORT: PEDESTAL
25	0633904	PUMP, CENTRIFUGAL: NPSH: 6 M; CAPACITY: 17 M3/HR; TOTAL HEAD: 98.5 M; SIZE: 100 MM; SPEED: 2919 RPM; STAGE: 7; TYPE: MULTI STG; MOUNT: VERTICAL; SUPPL P/N: CR-15-7-A-F-A-E-HQQE; OPERATING PRESSURE: 10 BAR; SUCTION AND DISCHARGE PORTS ON SAME LEVEL AND IN ONE LINE ENABLING INSTALLATION IN A HORIZONTAL ONE-PIPE SYSTEM

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		Document Identifier	XXX-XXXXX	Rev	2
		Effective Date	20 February 2016		
		Review Date	February 2023		

26	0633905	PUMP, CENTRIFUGAL: NPSH: 100 FT; CAPACITY: 200 M3/HR; TOTAL HEAD: 98.5 M; SIZE: 230 X 110.5 MM; SPEED: 2950 RPM; STAGE: 5; TYPE: MULTI STG SPLIT CASE; MOUNT: HORIZONTAL; SUPPL P/N: MPA100.2/2A-SA311A-9002; OPERATING PRESSURE: 40 BAR; ENSURE THE TEST REPORTS AND DATASHEETS ARE ATTACHED WITH THE PUMP ON DELIVERY
27	0634750	PUMP, CENTRIFUGAL: NPSH: 9.2-3.2 M; CAPACITY: 300.7/100 M3/HR; TOTAL HEAD: 30 M; SIZE: 200 X 150 MM; SPEED: 1475 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR 400 V 37 KW IP65; 1500 RPM; TYPE: END SUCTION; SPECIFICATION: ETA-CX-150-315; MOUNT: HORIZONTAL; SHAFT DIAMETER: 42 MM; SUPPL P/N: ST.250408; ITEM DATA SHEET IS REQUIRED ON EVERY DELIVERY
28	0635546	PUMP, CENTRIFUGAL: NPSH: 7.8 M; CAPACITY: 780 M3/HR; TOTAL HEAD: 48 M; SIZE: 200 X 250 MM; SPEED: 916 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: SLURRY FILTER SUPPLY; SPECIFICATION: LCC-R 200-601.4
29	0635552	PUMP, CENTRIFUGAL: NPSH: 3.8 M; CAPACITY: 206 M3/HR; TOTAL HEAD: 34 M; SIZE: 150 X 100 MM; SPEED: 1393 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: SLURRY; SPECIFICATION: LCC-R 100-400.2
30	0635553	PUMP, CENTRIFUGAL: NPSH: 2.5 M; CAPACITY: 150 M3/HR; TOTAL HEAD: 27 M; SIZE: 150 X 100 MM; SPEED: 1136 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: SLURRY TRANSFER; SPECIFICATION: LCC-R 100-400.4
32	0635555	PUMP, CENTRIFUGAL: NPSH: 5 M; CAPACITY: 110 M3/HR; TOTAL HEAD: 29 M; SIZE: 100 X 80 MM; SPEED: 1460 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR 22 KW; 1460 RPM; TYPE: SLURRY; SPECIFICATION: ROWA-UV80.32-TMU 160L4-250
33	0635556	PUMP, CENTRIFUGAL: NPSH: 4.9 M; CAPACITY: 110 M3/HR; TOTAL HEAD: 31 M; SIZE: 100 X 80 MM; SPEED: 1460 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR 22 KW; 1460 RPM; TYPE: SLURRY; SPECIFICATION: ROWA-UV80.32-TMU 160L4-250
34	0635557	PUMP, CENTRIFUGAL: NPSH: 4.9 M; CAPACITY: 110 M3/HR; TOTAL HEAD: 30 M; SIZE: 100 X 80 MM; SPEED: 1460 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR 22 KW; 1460 RPM; TYPE: SLURRY; SPECIFICATION: ROWA-UV80.32-TMU 160L4-250

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	Supply and Delivery of Centrifugal Pumps SHE SPECIFICATION	Template Identifier	240-73418055	Rev	2
		Document Identifier	XXX-XXXXX	Rev	2
		Effective Date	20 February 2016		
		Review Date	February 2023		

35	0636387	PUMP, CENTRIFUGAL: NPSH: 8.24 M; CAPACITY: 750 M3/HR; TOTAL HEAD: 120 M; SIZE: 300 X 250 MM; SPEED: 1482 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: SPLIT CASE; MOUNT: HORIZONTAL; MODEL NO: OMEGA 250-600B
36	0637610	PUMP, CENTRIFUGAL: NPSH: 4.28 M; CAPACITY: 98.59 M3/HR; TOTAL HEAD: 58.32 M; SIZE: 100 MM; SPEED: 2948 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: SUBMERSIBLE; SPECIFICATION: KRTD 80-315/372 UG1-S; MODEL NO: UGI449273
37	0646956	PUMP, CENTRIFUGAL: NPSH: 1.8 M; CAPACITY: 55 M3/HR; TOTAL HEAD: 83 M; SIZE: 80 X 50 MM; SPEED: 2960 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: SUCTION END; SPECIFICATION: DIN 24256; DIN EN 22858; MOUNT: FLANGE B1; SHAFT DIAMETER: 55 MM; REFERENCE NO: 1293781/01-1293786/01; SUPPL P/N: KRC-50/250-308/GN; IMPELLER SIZE: 253MM; TOP-DISCHARGE; DATASHEET INCLUDE PUMP CURVE AND TEST CERTIFICATE TO BE INCLUDED IN EVERY DELIVERY; EVERY ITEM SHOULD BE DELIVERED WITH THE LATEST DOCUMENT REVISIONS
38	0647316	PUMP, CENTRIFUGAL: NPSH: 1.6 M; CAPACITY: 24000 LPH; TOTAL HEAD: 40 M; SIZE: 200 X 40 MM; SPEED: 2900 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR 7.5 KW 2P; TYPE: SLURRY; FIG NO: I00009-01726244750205-MEDES-3004; REFERENCE NO: SR11010021-1NP185; IMPELLER DIA: 185MM
39	0647317	PUMP, CENTRIFUGAL: NPSH: 0 M; CAPACITY: 25200 LPH; TOTAL HEAD: 25 M; SIZE: 165 X 25 MM; SPEED: 2684 RPM; STAGE: 1; DRIVER: MOTOR; TYPE: SLURRY; FIG NO: I00009-01726244750202-MEDES-3008; REFERENCE NO: AH400227
40	0647318	PUMP, CENTRIFUGAL: NPSH: 2 M; CAPACITY: 120 M3/HR; TOTAL HEAD: 16 M; SIZE: 100 X 25 MM; SPEED: 1950 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR 18.5 KW 180L; TYPE: SLURRY; FIG NO: I00009-01726244750201-MEDES-3007; REFERENCE NO: 14-10195
41	0647319	PUMP, CENTRIFUGAL: NPSH: 3 M; CAPACITY: 385 M3/HR; TOTAL HEAD: 46 M; SIZE: 203 X 152 MM; SPEED: 983 RPM; STAGE: 1; DRIVER: MOTOR; TYPE: SLURRY; REFERENCE NO: WP51825; SUPPL P/N: KWP-K125-500
42	0647320	PUMP, CENTRIFUGAL: NPSH: 4 M; CAPACITY: 200 M3/HR; TOTAL HEAD: 72 M; SIZE: 200 MM; SPEED: 1480 RPM; STAGE: 1; DRIVER: MOTOR; TYPE: SLURRY; REFERENCE NO: 9971896263/100/11

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	Supply and Delivery of Centrifugal Pumps SHE SPECIFICATION	Template Identifier	240-73418055	Rev	2
		Document Identifier	XXX-XXXXX	Rev	2
		Effective Date	20 February 2016		
		Review Date	February 2023		

43	0654358	PUMP, CENTRIFUGAL: NPSH: 5.62 M; CAPACITY: 171.7 M3/HR; TOTAL HEAD: 78.5 M; SIZE: 125 X 100 MM; SPEED: 2960 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: 125-100-250; MOUNT: HORIZONTAL
44	0659390	PUMP, CENTRIFUGAL: NPSH: 2.6 M; CAPACITY: 30 M3/HR; TOTAL HEAD: 9.9 M; SIZE: 3 X 2 IN; SPEED: 1450 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: HORIZONTAL; SPECIFICATION: NEPO-80-50-200; DRAWING NO: 68249 REV 0; ON EVERY DELIVERY PLEASE PROVIDE DRAWINGS; DATA SHEET AND MANUAL; ONLY PUMP REQUIRED
45	0659397	PUMP, CENTRIFUGAL: NPSH: 2.6 M; CAPACITY: 30 M3/HR; TOTAL HEAD: 7.3 M; SIZE: 3 X 2 IN; SPEED: 1450 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: HORIZONTAL; SPECIFICATION: NEPO-80-50-200; DRAWING NO: 68250 REV 0; ON EVERY DELIVERY PLEASE PROVIDE DRAWINGS; DATA SHEET AND MANUAL; ONLY PUMP REQUIRED
46	0659398	PUMP, CENTRIFUGAL: NPSH: 2.5 M; CAPACITY: 21 M3/HR; TOTAL HEAD: 8.8 M; SIZE: 3 X 2 IN; SPEED: 1450 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: HORIZONTAL; SPECIFICATION: NEPO-80-50-200; DRAWING NO: 68248 REV 0; ON EVERY DELIVERY PLEASE PROVIDE DRAWINGS; DATA SHEET AND MANUAL; ONLY PUMP REQUIRED
47	0659840	PUMP, CENTRIFUGAL: NPSH: 0; CAPACITY: 45 M3/HR; TOTAL HEAD: 9 M; SIZE: 80 X 65 MM; SPEED: 1468 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: HORIZONTAL; SPECIFICATION: NKG80-65-160/177; REFERENCE NO: B99071359-P116130002; DRAWINGS; DATASHEET AND MANUAL REQUIRED ON EVERY DELIVERY; PUMP ONLY REQUIRED
48	0659841	PUMP, CENTRIFUGAL: NPSH: 0.24 M; CAPACITY: 40 M3/HR; TOTAL HEAD: 1 M; SIZE: 2 X 2 IN; SPEED: 2900 RPM; STAGE: 1; TYPE: HORIZONTAL; SPECIFICATION: DB22; MODEL NO: DB22P-E-FF-5-25; REFERENCE NO: 131741-I14; DRAWINGS; DATASHEET AND MANUAL REQUIRED ON EVERY DELIVERY; PUMP ONLY REQUIRED
49	0661447	PUMP, CENTRIFUGAL: NPSH: 5.4 M; CAPACITY: 60M3/H AT 50M; TOTAL HEAD: 50 M; SIZE: 80 X 50 MM; SPEED: 985 RPM; STAGE: 1; DRIVER: MOTOR; TYPE: SLURRY; MOUNT: BASE; SHAFT DIAMETER: 48 MM; SUPPL P/N: HM75-EHC-S
50	0662122	PUMP, CENTRIFUGAL: NPSH: 5.79 M; CAPACITY: 165.2 CM/HR; TOTAL HEAD: 58.3 M; SIZE: 125 X 100 MM; SPEED: 2960 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: 125-100-250; MOUNT: HORIZONTAL; SHAFT DIAMETER: 32 MM

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	Supply and Delivery of Centrifugal Pumps SHE SPECIFICATION	Template Identifier	240-73418055	Rev	2
		Document Identifier	XXX-XXXXX	Rev	2
		Effective Date	20 February 2016		
		Review Date	February 2023		

51	0667139	PUMP, CENTRIFUGAL: NPSH: 0; CAPACITY: 100 M3/HR; TOTAL HEAD: 45 M; SIZE: 125 X 100 MM; SPEED: 2850 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR 48.2 KW; TYPE: SUBMERSIBLE; SPECIFICATION: ISO 9906 CL 2; MOUNT: PEDESTAL; REFERENCE NO: 1020105809
52	0669936	PUMP, CENTRIFUGAL: NPSH: 5.62/8.2 M; CAPACITY: 237.7 M3/HR; TOTAL HEAD: 170 M; SIZE: 200 X 150 MM; SPEED: 1475 RPM; STAGE: 4; DRIVER: ELECTRIC MOTOR 6600 V 185 KW; 1475 RPM; TYPE: MULTI STG; MOUNT: HORIZONTAL; SHAFT DIAMETER: DIA 60 MM; SUPPL P/N: MTCD150/4-12.1 22.29SP; 1LA1 305-4, LP2 HEATER DRAIN RECOVERY PUMP; ITEM DATA SHEET IS REQUIRED ON EVERY DELIVERY
53	0673825	PUMP, CENTRIFUGAL: NPSH: 2 M; CAPACITY: 300 M3/HR; TOTAL HEAD: 20.4 M; SIZE: 200 X 150 MM; SPEED: 1465 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: 150-315; MOUNT: HORIZONTAL; REFERENCE NO: 396.111/2
54	0673826	PUMP, CENTRIFUGAL: NPSH: 4.8 M; CAPACITY: 120 M3/HR; TOTAL HEAD: 40.8 M; SIZE: 100 X 125 MM; SPEED: 2940 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: 80-160; MOUNT: HORIZONTAL; REFERENCE NO: 396.109/10
55	0676398	PUMP, CENTRIFUGAL: NPSH: 5.22 M; CAPACITY: 0.5 M3/HR; TOTAL HEAD: 15.75 M; SIZE: 1 IN; SPEED: 2840 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; TYPE: HIGH PRESSURE; SPECIFICATION: V F002/02 B2D13ES00325AW; MOUNT: VERTICAL; SUPPL P/N: 796008; PUMP AND MOTOR MUST BE SUPPLIED AS AN ASSEMBLY; DRAWINGS; DATASHEET; CERTIFICATE AND ALL MANUALS IS REQUIRED ON EVERY DELIVERY
56	0679658	PUMP, CENTRIFUGAL: NPSH: 5.52 M; CAPACITY: 125 M3/HR; TOTAL HEAD: 98 M; SIZE: 80 X 50 MM; SPEED: 2622 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: ANSI B73.1; MOUNT: HORIZONTAL; REFERENCE NO: 3196 LTI; SUPPL P/N: ETN84-85; DENSITY RANGE 1000–1200 KG/M3; PH: 5–8; SITE ALTITUDE: 1504 MASL
57	0687431	PUMP, CENTRIFUGAL: NPSH: 1.2 M; CAPACITY: 171 M3/HR; TOTAL HEAD: 75.6 M; SIZE: 200 X 150 MM; SPEED: 1480 RPM; STAGE: 1; DRIVER: ELECTRIC MOTOR; SPECIFICATION: CPK150-500; MOUNT: HORIZONTAL; REFERENCE NO: 506388/90
58	0690213	PUMP, CENTRIFUGAL: NPSH: 0.5 M; CAPACITY: 6000 IPH; TOTAL HEAD: 5 M; SIZE: 25 MM; SPEED: 2720 RPM; STAGE: 1; DRIVER: MOTOR; SPECIFICATION: CTM 25-8 P; REFERENCE NO: 1310-4290

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	Supply and Delivery of Centrifugal Pumps SHE SPECIFICATION	Template Identifier	240-73418055	Rev	2
		Document Identifier	XXX-XXXXX	Rev	2
		Effective Date	20 February 2016		
		Review Date	February 2023		

Non-negotiable tender Returnable

The following returnable are non-negotiable:

- Signed Annexure B
- OHS plan / OHS manual
- Baseline SHE risk assessment
- Valid letter of good standing or equivalent
- SHE policy (must be signed)
- Signed 37 (2) agreement

3.2 LEGAL COMPLIANCE

3.2.1 Section 37(2) (Legal) Agreement

A section 37(2) agreement must be signed between Eskom and the principal contractor at the time of awarding the contract. The principal contractor must ensure that a section 37(2) agreement is compiled between the principal contractor and all their appointed contractors for the contract.

The original copy of the section 37(2) agreement must be retained by the contractor and a copy retained by the responsible manager.

A copy all the agreements must form part of the respective contractor's SHE files.

3.2.2 Hazardous Work by Children (Child Labour)

The constitution of the Republic of South Africa, in the "Bill of Rights" is clear on the rights of children, especially when it comes to:

1. being protected from exploitative labour practices.
2. not to be required or permitted to perform work or provide services that
 - i. are inappropriate for a person of that child's age; or
 - ii. place at risk the child's well-being, education, physical or mental health or spiritual, moral or social development.

and the Basic Conditions of Employment Act, Chapter six Section 43 "Prohibition of employment of children".

Before resorting to the use of child labour, due consideration must be given to the rights of the child in terms of the constitution. Where work is being performed which is not prohibited in terms of the constitution, then such work must be conducted in terms of the OHS Act "Regulations on Hazardous Work by Children in South Africa" with emphasis on paragraph 2

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	Supply and Delivery of Centrifugal Pumps SHE SPECIFICATION	Template Identifier	240-73418055	Rev	2
		Document Identifier	XXX-XXXXX	Rev	2
		Effective Date	20 February 2016		
		Review Date	February 2023		

Purpose and Interpretation. Eskom does not condone the use of child labour and therefore all effort must be exercised, and child labour should not be used.

3.2.3 OHS Act

The principal contractor and appointed contractors shall have an up-to-date copy of the OHS Act and regulations which will be available to all employees.

3.2.4 Legislative Compliance

All contractors will comply with all the legislation pertaining to this contract being:

- The Constitution of the Republic of South Africa (particularly Section 24 of the Bill of Rights).
- Occupational Health and Safety Act 1993 (Act 85 of 1993) and its Regulations.
- Compensation for Occupational Injuries and Diseases Act.

3.3 Kusile Power Station requirements

All contractors shall, before commencement of the charter ensure that all their employees are familiar with the relevant Eskom SHE documentation that is applicable to supply and delivery services.

- The contractor must submit a SHE Plan in line with the scope of work
- Company own organogram
- Relevant legal appointments
- Inspection reports/records of the vehicle used to transport goods
- Driver competencies to operate the vehicle
- Methodology/work instruction for off-loading goods
- Route risk assessment
- Where the off-loading is done by the goods operator a task risk assessment must be conducted and authorised by the end user/receiver of the goods
- Baseline risk assessment addressing all associated activities as per issued scope of work
- Valid medical certificates of fitness
- Valid letter of good standing
- All drivers must be competent risk assessors
- The contractor to provide a list of drivers to do deliveries
- All drivers must have First aid level 1
- Proof of company own induction
- Proof that vehicles meet legal requirements

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	Supply and Delivery of Centrifugal Pumps SHE SPECIFICATION	Template Identifier	240-73418055	Rev	2
		Document Identifier	XXX-XXXXX	Rev	2
		Effective Date	20 February 2016		
		Review Date	February 2023		

3.3.1 Appointment of a Contractor

The appointed contractor will be appointed by Eskom Kusile Power Station on the awarding of the contract and will be responsible and accountable for all legislative and Eskom requirements for the duration of the contract.

3.3.2 Appointment of sub-contractors

The appointed contractor may appoint sub-contractors to assist in the contract. All appointments shall be done in writing and will form part of the SHE plans that is required to be submitted to Eskom. Adequate training and instruction must be given to the appointees and the principal contractor must ensure that all the appointed contractors understand their roles and responsibilities.

Note: Copies of contractor appointments must be kept in the respective SHE files.

3.3.3 SHE Policy

A SHE policy is a statement of intent and a commitment by the organisation's CE and senior management in relation to the relevant SHE roles and responsibilities, the achievement of their strategic objectives, values of integrity, customer satisfaction, excellence, and innovation.

The principal contractor and all appointed contractors, if already not in place, will be required to compile an organisational SHE policy in line with their SHE responsibilities. The policy must be signed by the organisation's CE or the appointed assistant to the CE OHS Act Section 16(2). The policy must be displayed in a prominent place within the workplace. A copy of the policy must be filed in all the contract SHE files and as an annexure the SHE Plans

3.3.4 COID

The principal contractor and all his/her appointed contractors shall be registered with an appropriate employment compensation commissioner and have available a valid letter of good standing (LoGS) from such commissioner. The obligation lies with the contractors to ensure that the LoGS remains valid throughout the contract period. A copy of the LoGS must be filed in the entire contract SHE files and as an annexure the SHE Plans.

3.4 PERSONNEL HEALTH / HYGIENE FACILITIES

N/A

3.4.1 Ablution facilities

N.A

3.4.2 Drinking Water

n/a

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	Supply and Delivery of Centrifugal Pumps SHE SPECIFICATION	Template Identifier	240-73418055	Rev	2
		Document Identifier	XXX-XXXXX	Rev	2
		Effective Date	20 February 2016		
		Review Date	February 2023		

3.4.3 Changing areas and Lockers

N/A

3.4.4 Camp / Office Welfare

N.A

3.5 FOOD HANDLING HYGIENE

N/A

3.6 OCCUPATIONAL HEALTH, HYGIENE AND REHABILITATION,

All contractors are required to develop an Occupational Health, Hygiene and Rehabilitation program. The program is intended to ensure that the risks to health are identified and controlled.

3.6.1 Medicals

Note: Eskom will only accept medical surveillances conducted by an Occupational Health Practitioner who holds a qualification in occupational health.

1. Principle contractors must ensure that their and their appointed contractors have a medical surveillance program whereby their employees under go entry, periodic and exit medical fitness examinations.
2. For the appropriate medical examinations to be conducted, each employee must have a person job specification (profile), which must indicate the description of work, list of hazards and potential occupational exposure limits, physical hazards and required physical attributes.
3. For employees working on the contract, medical fitness certificates shall be renewed annually for employees who are not office bound including drivers and once every 3 years for employees that are office bound. This shall be maintained until completion of the contract.
4. The Principal Contractor must ensure that his / her employees and sub-contractor employees have undergone pre-entry medical examination before starting work on the contract, should it be for longer than three (3) days.
5. The principal contractor shall provide a documented process for managing those employees who are issued with a conditional certificate of fitness.

3.6.2 Health and wellness HIV / Aids

Contractors shall submit details of their Employee Health and Wellness Programme as part of their Health and Safety Plan which should include awareness training, support for contracted illness and sharing knowledge with members of the public in the immediate work environment

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	Supply and Delivery of Centrifugal Pumps SHE SPECIFICATION	Template Identifier	240-73418055	Rev	2
		Document Identifier	XXX-XXXXX	Rev	2
		Effective Date	20 February 2016		
		Review Date	February 2023		

3.7 APPOINTMENTS

For the duration of the contract, the principal contractor and all appointed contractors shall appoint competent employees who will meet the requirements of the OHS Act. Where appointments are made, contractors shall ensure that the appointees have been suitably trained and or informed of their responsibilities before getting them to accept such appointment. The relevant statutory appointments shall be made in accordance with the requirements of the OHS Act which includes the requirement of a competent person being appointed in the relevant roles. The statutory appointments should include but not limited to: Fire Fighter and Evacuation warden, First Aider, 16(2) appointments.

3.8 ROLES AND RESPONSIBILITIES

All contractors are required to list employee's roles and responsibilities pertaining to the contract.

3.9 RISK ASSESSMENTS

It is a legal requirement in terms of Section 8 (2)(d) of the OHS Act for an employer to carry out risk assessments to establish what hazards to the health and safety of persons are attached to any work which is performed, any article or substance which is, handled, stored, transported. A risk assessment is defined as an identification of the hazards present in an organisation and an estimate of the extent of the risks involved, considering whatever precautions are already being taken. It is essentially a three-stage process:

- identification of all hazards.
- evaluation of the risks.
- measures to control the risks.

Risk assessments are required to be maintained. This means that significant changes to a process or activity, or any new process or activity should be subjected to a risk assessment and that if new hazards come to light during the work process, then these should also be subjected to risk assessments. Risk assessments for long term processes should be periodically reviewed and updated. Method statements or written safe work procedures are an effective method as information and record of the way jobs / tasks must be performed. Prior to start of work, risk assessments on every job / task are ideal to allow managers and employees to assess any inherent risks that could have been overlooked during the initial risk assessment or any changes that might have occurred in a period of absence. In particular, if a job / task is extended over a day or halted due to inclement weather.

3.10 INCIDENT INVESTIGATION

All incidents shall be investigated in terms of OHS Act General Administrative Regulations 8 and 9, using Eskom Procedure 32-95 as a reference, and where injuries as contemplated in sections 24 and 25 have been sustained, be reported to the Department of Labour.

Contractors shall use the standard General Administrative Regulation Annexure 1 "Recording of an Incident" form for all incident investigation reports. The objective of incident investigation,

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	Supply and Delivery of Centrifugal Pumps SHE SPECIFICATION	Template Identifier	240-73418055	Rev	2
		Document Identifier	XXX-XXXXX	Rev	2
		Effective Date	20 February 2016		
		Review Date	February 2023		

not only being a legal requirement, is to establish why and how the incident occurred, but to find out the real causes of the incident and to decide on precautionary measures that are required to address the causes to prevent any further recurrences of the same or similar incidents.

3.11 EMERGENCY MANAGEMENT

1. The art of emergency preparedness and response is to minimise the effects of any emergency and to restore normal activities as soon as practical. The supplier must develop their own emergency response in their work premises. The Eskom employees attending training must be made aware of the emergency process and the assembly points. Where any office and or site is located within any Local Authorities area, then the plans must include their involvement. Emergency preparedness

Periodic emergency drills must be undertaken to test the effectiveness of the plan. This must be recorded and provided on request.

3.11.1 Non-Conformance and Compliance

1. Any non-compliance to any health and safety requirement in this SHE specification is subject to discipline in terms of the Eskom Procurement and Supply Management Procedure.
2. Principal contractors are required to implement a non-conformance procedure (if not already in place) for issuing to contractors for transgressions. The procedure can include “quality” related non-conformance issues. Similarly, appointed contractors must implement a non-conformance procedure.
3. The procedure for the issuing and closing off non-conformance reports shall be strictly adhered to.
4. Contract management must close out non-conformances issued, in not doing so, will not ensure that any recommendations made have been carried out and or implemented.
5. Where non-conformances are issued by Eskom, then one of the close-out steps of the procedure will be for the offender to be called on by the contractor responsible manager to explain the non-conformance issued and what they intend doing to prevent a recurrence of the non-conformance.
6. Contractor failure to provide adequate PPE to their employees for the tasks being performed and/or to visitors and failure to enforce the wearing of such PPE will be viewed as a transgression of the legislative and Eskom requirements.

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	Supply and Delivery of Centrifugal Pumps SHE SPECIFICATION	Template Identifier	240-73418055	Rev	2
		Document Identifier	XXX-XXXXX	Rev	2
		Effective Date	20 February 2016		
		Review Date	February 2023		

3.11.2 QUALITY REQUIREMENTS

To ensure compliance to Quality Management System requirements, the following requirements shall be adhered to:

- Complete and signed Form A
- Valid copy of ISO 9001 or any applicable certificate of a quality management system (the latest applicable revision)
- A draft contract quality plan
- Latest copy of an internal and external management system audit reports. The audit reports must include, if applicable, nonconformity identified, and the resulting remedial actions (correction and/ or corrective action reports).
- Draft contract quality plan
- An inspection and test plan (ITP) or quality control plan (QCP) on similar and/ or previous work done.
- Documented information for Control of Externally Provided Processes, Products and Services
- A copy of documented information for roles, responsibilities and authorities.

3.11.3 ENVIRONMENTAL REQUIREMENTS

- All the contractor and contract manager are responsible for all spillages that may be caused by their vehicles on site
- The contractor must comply with Kusile waste disposal procedure and environmental requirements.
- Environmental Policy
- Environmental Aspect and Impact register
- Waste Management Plan

4. AUTHORIZATION

Nil

5. REVISIONS

Date	Rev.	Compiler	Remarks
March 2022	1		This provides the initial SHE specification requirements that must be met by the relevant contractors who have been awarded a contract for the work to be performed for Eskom.

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