

	SCOPE OF WORK (SOW)	TURBO GEN SERVICES (TGS)
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# 1 Objectives

As part of ERI TGS Works Services, it is required to make use of various high quality industrial rated consumables (eg: drills, reamers and jacking pins) for use during maintenance of Eskom Turbines in Rosherville workshop or various site.

The objective of this document is to outline the services that are required from approved Industrial Consumable supply services companies. It seeks to ensure that the proposed services required are executed in a planned and structured manner, and that all quality and safety requirements during activities are met.

## 2 Scope of Services

The scope of responsibility includes the supply, delivery, exchange and transport of New consumable to consumables to listed ERI work stations and Eskom power stations as per list on section. Clarification meeting and site visit is essential to understand requirements and application thereof with respective subcontractors.

## 3 General Requirements

### 3.1 Quality

- All consumables will be supplied as new, un-used and undamaged, packaged in their original packaging and inclusive user documentation, i.e: manuals, calibration certificate, test certificate, etc. where applicable for the specific consumables.
- The consumables will be rated high quality for industrial, construction and mechanical workshop use, of reputable brands in the market.
- Consumables must be supplied with manufacturer Warrantees and be exchangeable with the supplier where premature failure occurs due to manufacturing defects.
- For any type of liquid; gas; solvent and/or chemical products and compounds, the associate Material Safety Datasheet (MSDS) must be supplied to ERI.

### 3.2 Lead / Turn Around times

- The supplier must ensure the shortest possible turnaround time when consumable orders are placed, to be able to outage execution. A maximum of 14 days turnaround time for any request or emergency, including delivery.

### 3.3 Where Services will be rendered

- It is the responsibility of the supplier to transport and deliver the consumables to where they will be used, safely and securely.
- The consumables are to be delivered to ERI TGS Rosherville workshop

### 3.4 Scope for manufacturing

- Manufacture Drill Bit, Morse Taper 1:100, Material HSS, Standard Din 345 Flute, LG 218mm, LG 223mm And LG 228mm
- Manufacture Reamers, Helix, LH Taper 1:100, LG 188, Material HSS, full length of the work piece is 260mm therefore effective length on reamers to accommodate such

- Manufacture jacking pins, pax2 material (1.2547) and hardness of 52 – 56 HRC, hardened and tempered to achieve stipulated hardness, alternative materials 1.2542 din 45wcrv7 or 1.2550 din 17350
- Manufacture replacement and grind root pins to suit the holes, final sizes to be confirmed after reaming the holes upon blade replacement, Taper 1:100 Material For Pins Is 34CRMo4

LINE ITEM NO.	Component Description	QUANTITY
1	Morse Taper Shank Drills (STD Length) HSS 8mm	10
2	Morse Taper Shank Drills (STD Length) HSS 8.50mm	10
3	Morse Taper Shank Drills (STD Length) HSS 9mm	10
4	Morse Taper Shank Drills (STD Length) HSS 10mm	10
5	Morse Taper Shank Drills (STD Length) HSS 10.50mm	10
6	Morse Taper Shank Drills (STD Length) HSS 11mm	10
7	Morse Taper Shank Drills (STD Length) HSS 11.50mm	10
8	Morse Taper Shank Drills (STD Length) HSS 12mm	10
9	Morse Taper Shank Drills (STD Length) HSS 12.50mm	10
10	Morse Taper Shank Drills (STD Length) HSS 13mm	10
11	Morse Taper Shank Drills (STD Length) HSS 13.50mm	10
12	Morse Taper Shank Drills (STD Length) HSS 14mm	10
13	Morse Taper Shank Drills (STD Length) HSS 14.50mm	10
14	Morse Taper Shank Drills (STD Length) HSS 15mm	10
15	Morse Taper Shank Drills (STD Length) HSS 15.50mm	10
16	Morse Taper Shank Drills (STD Length) HSS 16mm	10
17	Morse Taper Shank Drills (STD Length) HSS 16.50mm	10
18	Morse Taper Shank Drills (STD Length) HSS 17mm	10
19	Morse Taper Shank Drills (STD Length) HSS 17.50mm	10
20	Morse Taper Shank Drills (STD Length) HSS 18mm	10
21	Morse Taper Shank Drills (STD Length) HSS 18.50mm	10
22	Morse Taper Shank Drills (STD Length) HSS 19mm	10
23	Morse Taper Shank Drills (STD Length) HSS 19.50mm	10
24	Morse Taper Shank Drills (STD Length) HSS 20mm	10
25	Morse Taper Shank Drills (STD Length) HSS 20.50mm	10
26	Morse Taper Shank Drills (STD Length) HSS 21mm	10
27	Morse Taper Shank Drills (STD Length) HSS 21.50mm	10
28	Morse Taper Shank Drills (STD Length) HSS 22mm	10
29	Morse Taper Shank Drills (STD Length) HSS 22.50mm	10
30	Morse Taper Shank Drills (STD Length) HSS 23mm	10

LINE ITEM NO.	Component Description	QUANTITY
31	Morse Taper Shank Drills (STD Length) HSS 23.50mm	10
32	Morse Taper Shank Drills (STD Length) HSS 24mm	10
33	Morse Taper Shank Drills (STD Length) HSS 24.50mm	5
34	Morse Taper Shank Drills (STD Length) HSS 25mm	5
35	Morse Taper Shank Drills (STD Length) HSS 25.50mm	2
36	Morse Taper Shank Drills (STD Length) HSS 26mm	2
37	Morse Taper Shank Drills (STD Length) HSS 26.50mm	2
38	Morse Taper Shank Drills (STD Length) HSS 27mm	2
39	Morse Taper Shank Drills (STD Length) HSS 27.50mm	2
40	Morse Taper Shank Drills (STD Length) HSS 28mm	2
41	Morse Taper Shank Drills (STD Length) HSS 28.50mm	2
42	Morse Taper Shank Drills (STD Length) HSS 29mm	2
43	Morse Taper Shank Drills (STD Length) HSS 29.50mm	2
44	Morse Taper Shank Drills (STD Length) HSS 30mm	2
45	Morse Taper Shank Drills (Long Series) HSS 8mm	10
46	Morse Taper Shank Drills (Long Series) HSS 8.50mm	10
47	Morse Taper Shank Drills (Long Series) HSS 9mm	10
48	Morse Taper Shank Drills (Long Series) HSS 9.50mm	10
49	Morse Taper Shank Drills (Long Series) HSS 10mm	10
50	Morse Taper Shank Drills (Long Series) HSS 10.50mm	10
51	Morse Taper Shank Drills (Long Series) HSS 11mm	10
52	Morse Taper Shank Drills (Long Series) HSS 11.50mm	10
53	Morse Taper Shank Drills (Long Series) HSS 12mm	10
54	Morse Taper Shank Drills (Long Series) HSS 12.50mm	10
55	Morse Taper Shank Drills (Long Series) HSS 13mm	10
56	Morse Taper Shank Drills (Long Series) HSS 13.50mm	10
57	Morse Taper Shank Drills (Long Series) HSS 14mm	10
58	Morse Taper Shank Drills (Long Series) HSS 14.50mm	10
59	Morse Taper Shank Drills (Long Series) HSS 15mm	10
60	Morse Taper Shank Drills (Long Series) HSS 15.50mm	10
61	Morse Taper Shank Drills (Long Series) HSS 16mm	10
62	Morse Taper Shank Drills (Long Series) HSS 16.50mm	10
63	Morse Taper Shank Drills (Long Series) HSS 17mm	10
64	Morse Taper Shank Drills (Long Series) HSS 17.50mm	10
65	Morse Taper Shank Drills (Long Series) HSS 18mm	10

LINE ITEM NO.	Component Description	QUANTITY
66	Morse Taper Shank Drills (Long Series) HSS 18.50mm	10
67	Morse Taper Shank Drills (Long Series) HSS 19mm	10
68	Morse Taper Shank Drills (Long Series) HSS 19.50mm	10
69	Morse Taper Shank Drills (Long Series) HSS 20mm	10
70	Morse Taper Shank Drills (Long Series) HSS 20.50mm	10
71	Morse Taper Shank Drills (Long Series) HSS 21mm	10
72	Morse Taper Shank Drills (Long Series) HSS 21.50mm	10
73	Morse Taper Shank Drills (Long Series) HSS 22mm	5
74	Morse Taper Shank Drills (Long Series) HSS 22.50mm	5
75	Morse Taper Shank Drills (Long Series) HSS 23mm	5
76	Morse Taper Shank Drills (Long Series) HSS 23.50mm	2
77	Morse Taper Shank Drills (Long Series) HSS 24mm	2
78	Morse Taper Shank Drills (Long Series) HSS 24.50mm	2
79	Morse Taper Shank Drills (Long Series) HSS 25mm	2
80	Morse Taper Shank Drills (Long Series) HSS 25.50mm	2
81	Morse Taper Shank Drills (Long Series) HSS 26mm	2
82	Tungsten Carbide Straight Shank Drills 8mm	10
83	Tungsten Carbide Straight Shank Drills 8.50mm	10
84	Tungsten Carbide Straight Shank Drills 9mm	10
85	Tungsten Carbide Straight Shank Drills 9.50mm	10
86	Tungsten Carbide Straight Shank Drills 10mm	10
87	Tungsten Carbide Straight Shank Drills 10.50mm	10
88	Tungsten Carbide Straight Shank Drills 11mm	10
89	Tungsten Carbide Straight Shank Drills 11.50mm	10
90	Tungsten Carbide Straight Shank Drills 12mm	10
91	Tungsten Carbide Straight Shank Drills 12.50mm	10
92	Tungsten Carbide Straight Shank Drills 13mm	10
93	Tungsten Carbide Straight Shank Drills 13.50mm	10
94	Tungsten Carbide Straight Shank Drills 14mm	10
95	Tungsten Carbide Straight Shank Drills 14.50mm	10
96	Tungsten Carbide Straight Shank Drills 15mm	10
97	Tungsten Carbide Straight Shank Drills 15.50mm	10
98	Tungsten Carbide Straight Shank Drills 16mm	10
99	Tungsten Carbide Straight Shank Drills 16.50mm	10
100	Tungsten Carbide Straight Shank Drills 17mm	10

LINE ITEM NO.	Component Description	QUANTITY
101	Tungsten Carbide Straight Shank Drills 17.50mm	10
102	Tungsten Carbide Straight Shank Drills 18mm	10
103	Tungsten Carbide Straight Shank Drills 18.50mm	10
104	Tungsten Carbide Straight Shank Drills 19mm	10
105	Tungsten Carbide Straight Shank Drills 19.50mm	10
106	Tungsten Carbide Straight Shank Drills 20mm	10
107	Tungsten Carbide Straight Shank Drills 20.50mm	10
108	Tungsten Carbide Straight Shank Drills 21mm	10
109	Tungsten Carbide Straight Shank Drills 21.50mm	10
110	Tungsten Carbide Straight Shank Drills 22mm	10
111	Tungsten Carbide Straight Shank Drills 22.50mm	10
112	Tungsten Carbide Straight Shank Drills 23mm	5
113	Tungsten Carbide Straight Shank Drills 23.50mm	5
114	Tungsten Carbide Straight Shank Drills 24mm	5
115	Tungsten Carbide Straight Shank Drills 24.50mm	5
116	Tungsten Carbide Straight Shank Drills 25mm	5
117	Morse Taper Shank reamers (STD length) HSS 8mm	15
118	Morse Taper Shank reamers (STD length) HSS 8.25mm	15
119	Morse Taper Shank reamers (STD length) HSS 8.50mm	15
120	Morse Taper Shank reamers (STD length) HSS 8.75mm	15
121	Morse Taper Shank reamers (STD length) HSS 9mm	15
122	Morse Taper Shank reamers (STD length) HSS 9.25mm	15
123	Morse Taper Shank reamers (STD length) HSS 9.50mm	15
124	Morse Taper Shank reamers (STD length) HSS 9.75mm	15
125	Morse Taper Shank reamers (STD length) HSS 10mm	15
126	Morse Taper Shank reamers (STD length) HSS 10.25mm	15
127	Morse Taper Shank reamers (STD length) HSS 10.50mm	15
128	Morse Taper Shank reamers (STD length) HSS 10.75mm	15
129	Morse Taper Shank reamers (STD length) HSS 11mm	15
130	Morse Taper Shank reamers (STD length) HSS 11.25mm	15
131	Morse Taper Shank reamers (STD length) HSS 11.50mm	15
132	Morse Taper Shank reamers (STD length) HSS 11.75mm	15
133	Morse Taper Shank reamers (STD length) HSS 12mm	15

LINE ITEM NO.	Component Description	QUANTITY
134	Morse Taper Shank reamers (STD length) HSS 12.25mm	15
135	Morse Taper Shank reamers (STD length) HSS 12.50mm	15
136	Morse Taper Shank reamers (STD length) HSS 12.75mm	15
137	Morse Taper Shank reamers (STD length) HSS 13mm	15
138	Morse Taper Shank reamers (STD length) HSS 13.25mm	15
139	Morse Taper Shank reamers (STD length) HSS 13.50mm	15
140	Morse Taper Shank reamers (STD length) HSS 13.75mm	15
141	Morse Taper Shank reamers (STD length) HSS 14mm	15
142	Morse Taper Shank reamers (STD length) HSS 14.25mm	15
143	Morse Taper Shank reamers (STD length) HSS 14.75mm	15
144	Morse Taper Shank reamers (STD length) HSS 15mm	15
145	Morse Taper Shank reamers (STD length) HSS 15.25mm	15
146	Morse Taper Shank reamers (STD length) HSS 15.50mm	15
147	Morse Taper Shank reamers (STD length) HSS 15.75mm	15
148	Morse Taper Shank reamers (STD length) HSS 18mm	15
149	Morse Taper Shank reamers (STD length) HSS 18.25mm	15
150	Morse Taper Shank reamers (STD length) HSS 18.50mm	15
151	Morse Taper Shank reamers (STD length) HSS 18.75mm	15
152	Morse Taper Shank reamers (STD length) HSS 19mm	15
153	Morse Taper Shank reamers (STD length) HSS 19.25mm	15
154	Morse Taper Shank reamers (STD length) HSS 19.50mm	15
155	Morse Taper Shank reamers (STD length) HSS 19.75mm	15
156	Morse Taper Shank reamers (STD length) HSS 20mm	15
157	Morse Taper Shank reamers (STD length) HSS 20.25mm	15
158	Morse Taper Shank reamers (STD length) HSS 20.50mm	15
159	Morse Taper Shank reamers (STD length) HSS 20.75mm	15
160	Morse Taper Shank reamers (STD length) HSS 21mm	15
161	Morse Taper Shank reamers (STD length) HSS 21.25mm	15
162	Morse Taper Shank reamers (STD length) HSS 21.50mm	15



LINE ITEM NO.	Component Description	QUANTITY
163	Morse Taper Shank reamers (STD length) HSS 21.75mm	15
164	Morse Taper Shank reamers (STD length) HSS 22mm	15
165	Morse Taper Shank reamers (STD length) HSS 22.25mm	15
166	Morse Taper Shank reamers (STD length) HSS 22.50mm	15
167	Morse Taper Shank reamers (STD length) HSS 22.75mm	15
168	Morse Taper Shank reamers (STD length) HSS 23mm	15
169	Morse Taper Shank reamers (STD length) HSS 23.25mm	15
170	Morse Taper Shank reamers (STD length) HSS 23.50mm	15
171	Morse Taper Shank reamers (STD length) HSS 23.75mm	15
172	Morse Taper Shank reamers (STD length) HSS 24mm	15
173	Morse Taper Shank reamers (STD length) HSS 24.25mm	15
174	Morse Taper Shank reamers (STD length) HSS 24.75mm	15
175	Morse Taper Shank reamers (STD length) HSS 25mm	15
176	Morse Taper Shank reamers (Long Series) HSS 8mm	15
177	Morse Taper Shank reamers (Long Series) HSS 8.25mm	15
178	Morse Taper Shank reamers (Long Series) HSS 8.50mm	15
179	Morse Taper Shank reamers (Long Series) HSS 8.75mm	15
180	Morse Taper Shank reamers (Long Series) HSS 9mm	15
181	Morse Taper Shank reamers (Long Series) HSS 9.25mm	15
182	Morse Taper Shank reamers (Long Series) HSS 9.50mm	15
183	Morse Taper Shank reamers (Long Series) HSS 9.75mm	15
184	Morse Taper Shank reamers (Long Series) HSS 10mm	15
185	Morse Taper Shank reamers (Long Series) HSS 10.25mm	15
186	Morse Taper Shank reamers (Long Series) HSS 10.50mm	15
187	Morse Taper Shank reamers (Long Series) HSS 10.75mm	15
189	Morse Taper Shank reamers (Long Series) HSS 11mm	15
190	Morse Taper Shank reamers (Long Series) HSS 11.25mm	15
191	Morse Taper Shank reamers (Long Series) HSS 11.50mm	15
192	Morse Taper Shank reamers (Long Series) HSS 11.75mm	15
193	Morse Taper Shank reamers (Long Series) HSS 12.00mm	15
194	Morse Taper Shank reamers (Long Series) HSS 12.25mm	15

LINE ITEM NO.	Component Description	QUANTITY
195	Morse Taper Shank reamers (Long Series) HSS 12.50mm	15
196	Morse Taper Shank reamers (Long Series) HSS 12.75mm	15
197	Morse Taper Shank reamers (Long Series) HSS 13.00mm	15
198	Morse Taper Shank reamers (Long Series) HSS 13.25mm	15
199	Morse Taper Shank reamers (Long Series) HSS 13.50mm	15
200	Morse Taper Shank reamers (Long Series) HSS 13.75mm	15
201	Morse Taper Shank reamers (Long Series) HSS 14mm	15
202	Morse Taper Shank reamers (Long Series) HSS 14.25mm	15
203	Morse Taper Shank reamers (Long Series) HSS 14.50mm	15
204	Morse Taper Shank reamers (Long Series) HSS 14.75mm	15
205	Morse Taper Shank reamers (Long Series) HSS 15mm	15
206	Morse Taper Shank reamers (Long Series) HSS 15.25mm	15
207	Morse Taper Shank reamers (Long Series) HSS 15.50mm	15
208	Morse Taper Shank reamers (Long Series) HSS 15.75mm	15
209	Morse Taper Shank reamers (Long Series) HSS 16mm	15
210	Morse Taper Shank reamers (Long Series) HSS 16.25mm	15
211	Morse Taper Shank reamers (Long Series) HSS 16.50mm	15
212	Morse Taper Shank reamers (Long Series) HSS 16.75mm	15
213	Morse Taper Shank reamers (Long Series) HSS 17mm	15
214	Morse Taper Shank reamers (Long Series) HSS 17.25mm	15
215	Morse Taper Shank reamers (Long Series) HSS 17.50mm	15
216	Morse Taper Shank reamers (Long Series) HSS 17.75mm	15
217	Morse Taper Shank reamers (Long Series) HSS 18mm	15
218	Morse Taper Shank reamers (Long Series) HSS 18.25mm	15
219	Morse Taper Shank reamers (Long Series) HSS 18.50mm	15
220	Morse Taper Shank reamers (Long Series) HSS 18.75mm	15
221	Morse Taper Shank reamers (Long Series) HSS 19mm	15
222	Morse Taper Shank reamers (Long Series) HSS 19.25mm	15
223	Morse Taper Shank reamers (Long Series) HSS 19.50mm	15

LINE ITEM NO.	Component Description	QUANTITY
224	Morse Taper Shank reamers (Long Series) HSS 19.75mm	15
225	Morse Taper Shank reamers (Long Series) HSS 20mm	15
226	Morse Taper Shank reamers (Long Series) HSS 20.25mm	15
227	Morse Taper Shank reamers (Long Series) HSS 20.50mm	15
228	Morse Taper Shank reamers (Long Series) HSS 20.75mm	15
229	Morse Taper Shank reamers (Long Series) HSS 21mm	10
230	Morse Taper Shank reamers (Long Series) HSS 21.25mm	10
231	Morse Taper Shank reamers (Long Series) HSS 21.50mm	10
232	Morse Taper Shank reamers (Long Series) HSS 21.75mm	10
233	Morse Taper Shank reamers (Long Series) HSS 22mm	10
234	Morse Taper Shank reamers (Long Series) HSS 22.25mm	3
235	Morse Taper Shank reamers (Long Series) HSS 22.50mm	3
236	Morse Taper Shank reamers (Long Series) HSS 22.75mm	3
237	Morse Taper Shank reamers (Long Series) HSS 23mm	3
238	Morse Taper Shank reamers (Long Series) HSS 23.25mm	3
239	Morse Taper Shank reamers (Long Series) HSS 23.50mm	3
240	Morse Taper Shank reamers (Long Series) HSS 23.75mm	3
241	Morse Taper Shank reamers (Long Series) HSS 24mm	3
242	Morse Taper Shank reamers (Long Series) HSS 24.25mm	3
243	Morse Taper Shank reamers (Long Series) HSS 24.50mm	3
244	Morse Taper Shank reamers (Long Series) HSS 24.75mm	3
245	Morse Taper Shank reamers (Long Series) HSS 25mm	3
246	Morse Taper Shank reamers (Long Series) HSS 10.25mm taper start of 1% or 1:100	15
247	Morse Taper Shank reamers (Long Series) HSS 10.50mm taper start of 1% or 1:100	15
248	Morse Taper Shank reamers (Long Series) HSS 10.75mm taper start of 1% or 1:100	15
249	Morse Taper Shank reamers (Long Series) HSS 11mm taper start of 1% or 1:100	15
250	Morse Taper Shank reamers (Long Series) HSS 11.25mm taper start of 1% or 1:100	15
251	Morse Taper Shank reamers (Long Series) HSS 11.50mm taper start of 1% or 1:100	15
252	Morse Taper Shank reamers (Long Series) HSS 11.75mm taper start of 1% or 1:100	15

LINE ITEM NO.	Component Description	QUANTITY
253	Morse Taper Shank reamers (Long Series) HSS 12mm taper start of 1% or 1:100	15
254	Morse Taper Shank reamers (Long Series) HSS 12.25mm taper start of 1% or 1:100	15
255	Morse Taper Shank reamers (Long Series) HSS 12.50mm taper start of 1% or 1:100	15
256	Morse Taper Shank reamers (Long Series) HSS 12.75mm taper start of 1% or 1:100	15
257	Morse Taper Shank reamers (Long Series) HSS 13.00mm taper start of 1% or 1:100	15
258	Morse Taper Shank reamers (Long Series) HSS 13.25mm taper start of 1% or 1:100	15
259	Morse Taper Shank reamers (Long Series) HSS 13.50mm taper start of 1% or 1:100	15
260	Morse Taper Shank reamers (Long Series) HSS 13.75mm taper start of 1% or 1:100	15
261	Morse Taper Shank reamers (Long Series) HSS 14mm taper start of 1% or 1:100	15
262	Morse Taper Shank reamers (Long Series) HSS 14.25mm taper start of 1% or 1:100	15
263	Morse Taper Shank reamers (Long Series) HSS 14.50mm taper start of 1% or 1:100	15
264	Morse Taper Shank reamers (Long Series) HSS 14.75mm taper start of 1% or 1:100	15
265	Morse Taper Shank reamers (Long Series) HSS 15mm taper start of 1% or 1:100	15
266	Morse Taper Shank reamers (Long Series) HSS 15.25mm taper start of 1% or 1:100	15
267	Morse Taper Shank reamers (Long Series) HSS 15.50mm taper start of 1% or 1:100	15
268	Morse Taper Shank reamers (Long Series) HSS 15.75mm taper start of 1% or 1:100	15
269	Morse Taper Shank reamers (Long Series) HSS 16mm taper start of 1% or 1:100	15
270	Morse Taper Shank reamers (Long Series) HSS 16.25mm taper start of 1% or 1:100	15
271	Morse Taper Shank reamers (Long Series) HSS 16.50mm taper start of 1% or 1:100	15
272	Morse Taper Shank reamers (Long Series) HSS 16.75mm taper start of 1% or 1:100	15
273	Morse Taper Shank reamers (Long Series) HSS 17mm taper start of 1% or 1:100	15
274	Morse Taper Shank reamers (Long Series) HSS 17.25mm taper start of 1% or 1:100	15
275	Morse Taper Shank reamers (Long Series) HSS 17.50mm taper start of 1% or 1:100	15
276	Morse Taper Shank reamers (Long Series) HSS 17.75mm taper start of 1% or 1:100	15
277	Morse Taper Shank reamers (Long Series) HSS 18mm taper start of 1% or 1:100	15
278	Morse Taper Shank reamers (Long Series) HSS 18.25mm taper start of 1% or 1:100	15
279	Morse Taper Shank reamers (Long Series) HSS 18.50mm taper start of 1% or 1:100	15
280	Morse Taper Shank reamers (Long Series) HSS 18.75mm taper start of 1% or 1:100	15

LINE ITEM NO.	Component Description	QUANTITY
281	Morse Taper Shank reamers (Long Series) HSS 19mm taper start of 1% or 1:100	15
282	Morse Taper Shank reamers (Long Series) HSS 19.25mm taper start of 1% or 1:100	15
283	Morse Taper Shank reamers (Long Series) HSS 19.50mm taper start of 1% or 1:100	15
284	Morse Taper Shank reamers (Long Series) HSS 19.75mm taper start of 1% or 1:100	15
285	Morse Taper Shank reamers (Long Series) HSS 20mm taper start of 1% or 1:100	15
286	Morse Taper Shank reamers (Long Series) HSS 20.25mm taper start of 1% or 1:100	15
287	Morse Taper Shank reamers (Long Series) HSS 20.50mm taper start of 1% or 1:100	15
289	Morse Taper Shank reamers (Long Series) HSS 20.75mm taper start of 1% or 1:100	15
290	Morse Taper Shank reamers (Long Series) HSS 21mm taper start of 1% or 1:100	3
291	Morse Taper Shank reamers (Long Series) HSS 21.25mm taper start of 1% or 1:100	3
292	Morse Taper Shank reamers (Long Series) HSS 21.50mm taper start of 1% or 1:100	3
293	Morse Taper Shank reamers (Long Series) HSS 21.75mm taper start of 1% or 1:100	3
294	Morse Taper Shank reamers (Long Series) HSS 22mm taper start of 1% or 1:100	3
295	Morse Taper Shank reamers (Long Series) HSS 22.25mm taper start of 1% or 1:100	3
296	Morse Taper Shank reamers (Long Series) HSS 22.50mm taper start of 1% or 1:100	3
297	Morse Taper Shank reamers (Long Series) HSS 22.75mm taper start of 1% or 1:100	3
298	Morse Taper Shank reamers (Long Series) HSS 23mm taper start of 1% or 1:100	3
299	Morse Taper Shank reamers (Long Series) HSS 23.25mm taper start of 1% or 1:100	3
300	Morse Taper Shank reamers (Long Series) HSS 23.50mm taper start of 1% or 1:100	3
301	Morse Taper Shank reamers (Long Series) HSS 23.75mm taper start of 1% or 1:100	3
302	Morse Taper Shank reamers (Long Series) HSS 24mm taper start of 1% or 1:100	3
303	Morse Taper Shank reamers (Long Series) HSS 24.25mm taper start of 1% or 1:100	3
304	Morse Taper Shank reamers (Long Series) HSS 24.50mm taper start of 1% or 1:100	3
305	Morse Taper Shank reamers (Long Series) HSS 24.75mm taper start of 1% or 1:100	3
306	Morse Taper Shank reamers (Long Series) HSS 25mm taper start of 1% or 1:100	3
307	Manufacture Jacking Pins using Pax2 material or suitable alternative with hardness of 52-56HRC. Pin sizes varies from 7.50mm in diameter of various lengths to be supplied by ERI up to a maximum diameter of 19.50mm working with increments of 0.50mm	25 of each type

LINE ITEM NO.	Component Description	QUANTITY
308	Manufacture root pins with diameter of 10.25mm taper start 1% or 1:100 various lengths up to a maximum diameter of 25mm working with increments of 0.25. Material for pins is 1.4913 or X19CrMoVNbN11-1 or X40MnCr18	600 per rotor
309	Metal cutting lubricant which doubles tool life	25L x 10

## 4 SHEQ REQUIREMENTS

**All service providers are expected to comply with, but not limited to the following:**

- Compliance with the Occupational Health and Safety Act 85 of 1993 is compulsory.
- Adherence to Quality Management System Policies, Procedures and related requirements of ISO 9001.
- Adherence to Occupational Health and Safety Policies, Procedures and related requirements of the OHSAS 18001.
- Adherence to environmental aspects, related impacts and legal requirements associated with work activities in accordance with ISO 14001.
- Adherence to Life Saving Rules.
- Compliance with the Eskom Plant Safety Regulations.
- Only authorised documents and processes are to be used in the execution of duties.
- Continuously seek methods for improvements from a process, quality and safety perspective.
- Obey all instructions.
- Familiarize with:
  - The applicable work instructions and procedures in place.
  - Safe working conditions and procedures.
  - All legal and contractual requirements.
  - Discipline and integrity.
  - Compliance to all ERI Work Instructions, processes, procedures, and standards
  - Adherence to ERI's disciplinary code or practice.
  - Set example to co-workers and others.
  - Participate in Risk Assessments.
  - Responsible for own safety.
  - Responsible for Personal Protective Equipment issued.
  - Execute duties promptly and safely.
  - Safeguard tools and safety equipment issued.
  - Keep good relationship with all personnel.
  - Compile a HIRA for each and every activity that needs to be performed.
  - Ensure the activities are carried out following a Works Instructions and Procedure.
  - Adhere to clean condition policy where required.
  - All activities to be carried out as per the documented processes and comply with the requirements of ISO and OHSAS certification
  - Service provider to comply to Eskom PPE (Personal Protective Equipment) Policy with regards to issuing of PPE to resources
  - Proper use of PPE to be followed

- Ensure that tools and equipment are stored correctly in a safe place

## 5 KEY DELIVERABLES

The following deliverables are to be met by the service provider:

- No customer complaints
- Compliance to all ERI Work Instructions, processes, procedures, and standards
- No SHEQ incidents
- Project Milestones are to be achieved on time, or earlier

## 6 Key Performance Indicators

The performance of the contractor will be evaluated on the KPIs in the table below:

Objective	Key Performance Indicator	Measure	Unit of Measure	Source of Evidence
Zero Defects	Zero Defects	Equipment delivered and operated defect free	Nr	To be provided by Employer
Zero Safety Incidents	Zero Safety Incidents	No safety related incidents for the duration of the services	Nr	To be provided by Employer
Due Date Performance – turnaround time	Due Date Performance	Actual delivery date versus supplier committed delivery date / Turnaround time to exchange or on emergency max 24hours	Hours	To be provided by supplier