FILE No.	Drilling Rigs	22.01.2019	Draft 1
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Well drilling and operation equipment UNSPSC 20110000

Drilling and operation machinery UNSPSC 20111600

Drilling Rigs Combination type DTH cum Rotatary UNSPSC 20111612

S.No.	Parameters	Grouping		Value 1	Value2	Value 3	Value 4	Value 5	Value 6	Golden	Validation	Whether Filter Require	Remarks	priority	Unit
1	Purpose	P	E	It is used to make deep holes in the earth's subsurface with the help of drilling assemble to massive structures housing & others equipment mounted on trucks.						G					
2	Diameter of Mud Rotary System in Inches	P	E	12,14 & 16						G					inch
3	Diameter of DTH Drilling in inch	P	E	5,6 & 8						G					inch
4	Maximum Drilling Capacity of Rotary syatem and DTH Drilling in meters	P	E	150						G					meters
5	Diameter of Odex Drilling System in inch	P	E	4.5 & 6.5						G					inch
6	Maximum Drilling capacity of Odex Drilling System in meters	P	E	80						G					meters
	Mast Assembly														
7	Overall Dimensions of Mast Assembly (Length x Width x Depth) in mm x mm x mm	D	E	11500 x 555 x 500											mm x mm x mm
8	Type of Construction of Mast Assembly	P	E	Structural Channel											
9	Top Head Travel of Mast Assembly in meters	D	E	7.05											meters
10	Maximum Drill Pipe length that can be handled in mast assembly in meters	D	E	6.09 meters						G					meters
11	Controlling Mechanism of mast Assembly	P	E	Hydraullically Based Control						G					
12	Material shall be Compliances for Mast Assembly	M	E	As per IS 2062 with Latest amdment											
	Head Rotary System														
13	Type of Top Head Rotary Head Drive	P	E	Gear Drive Based											
14	Maximum Torque Produced by Top Head Rotary Head Drive	P	E	250 kg -m @ 0-150 rpm in series mode and 500 kg -m @ 0-75 rpm in parallel mode						G					kg-m @ rpm
15	Type of Swiel of Head Rotary System	P	E	Mud Swivel (Floating type)											
16	Gear Ration of Rotary System	P	E	1 : 2.75											
17	Opening Through Spindle of Head Rotary System in mm	P	E	40											mm

18	Output Threading Details of Head Rotary System	P	E	27/8 inch API IF Box											
19	Number off Top Head Rotary Drive	P	E	2											
20	Make and Model of Head Rotary Drive system	P	E	EPMV 315 M S Hydraulic											
Feed System Unit															
21	Bore of Cylinder and Rod size of Feeding System in mm	D	E	140 and 60						G					mm
22	Stroke of Cylinder of Feeding System in mm	P	E	2350						G					mm
23	Hoist Capacity of Feed System in tonn	P	N							G	≥ 35				tonn
24	Hoist /Pull Down Slow Speed in mtrs /min	P	E	5						G	≥ 20				
25	Hoist /Pull Down Rapid Speed in mtrs /min	P	N							G	≥ 20				
26	Hoist /Pull Down slow -Rapid Speed in mtrs /min	P	E	15											
27	Pull Down Capacity in tonn	P	N								≥ 9				tonn
28	Reeving ratio of Feed System	P	E	1 : 3											
Hydraulic System Unit															
29	Hydralic tank Capcity in liters of hydraulic system	P	E	600						G					liters
30	Filteration return line of hydraulic system	D	E	10/25 micron						G					micron
31	Hydraulic tank Pressure of Hydraulic System	P	E	0.8						G					psi
32	Make of Hydraulic system	P	E	Saucer Danfos	Dension	Cassap pa	M+ S								
33	Pump Drive Gear Box	P	E	4 stage Tandom pump mounted on directly on bell housing											
34	Type of Hydrallic Oil cooler	P	E	Fin to air Type											
35	power to operate hydraulic pump	P	E	169 HP @ 2100 rpm											HP @ rpm
	Warrenty of compressor in years	P	E	2	3										years
Compressor Unit															
36	Make of Compressor	P	E	ELGI	Altas COPco										
37	Model Number of Compressor	P	T												
38	Max Free Air Delivery of Compreesoor	P	E	650 CFM @ 290 psi						G					
39	Compressor Engine Make and Model	P	E	Cummins 6 CTA 8.3						G					
40	Rated Power of Compressor Engine in HP @ rpm	P	E	260 @2200						G					HP @ rpm
41	Fuel Consumption Rate of Compressor Engine in liters /hr	P	T							G					liters /hr
42	Safety Control provided for Compressor system	P	E	Yes											

Deck Engine or Prime Mover															
43	Make of Deck engine	P	E	Cummins											
44	Deck Engine Mounting Dimension (Length x width)in mm x mm	D	E	2075 x 845						G					
45	Power Devloped by Deck engine HP @ rpm	D	E	169 @ 2100						G					HP @ rpm
MUD PUMP Unit															
46	Type of Mud Pump	P	E	Reciprocating Double Acting Type											
47	Make and Model of Mud Pump	P	E	CBG/Kores											
48	Stroke of Mud Pump in mm	P	E	150						G					mm
49	Max Discharge by Mud Pump in LPM	P	E	1021						G					LPM
50	Max working Pressure of mud pump in kg/cm2	P	E	15.45											kg/cm2
Water and Foam Injection Pump															
51	Type of Foam Injection pump	P	E	Triplex type											
52	Max Flow of Water & foam pump	P	E	50 LPM						G					LPM
53	Water tank capacity of Water Foam pump System in liters	P	E	1000											liters
Main Truck Unit															
54	Main Truck make and Model	P	E	Ashok Leyland 2516 IL/1 (6 X 4)											
55	Engine Model series of Main Truck	P	E	H Series											
56	Max Power of main truck in HP	P	E	160						G					HP
57	Max Torque of main truck in NM	P	E	550						G					NM
58	Dimension of main Truck (Length x Width)	D	E	9294 x 2432						G					mm xmm
59	Height of main truck in mm	D	E												mm
60	wheel base of main Truck in mm	D	E	4902											mm
61	Max Pay Laod of main truck	P	E												
62	Type of Suspension system of main truck unit	P	E												
63	Type of Transmission system of main truck system	P	E	ZFS 636 FGR 8.37											
64	Gross Vehicle Weight of main truck unit	D	E	25 tonn											tonn
65	Number of tyres size	P	E	10x 20 - 16 PR											
Levelling Jack Unit															
66	No of levelling jack	P	E	4											
67	Size and type of Jack Pad of levelling jack	P	E	200 and swivel type											
68	Bore of levelling jack	D	E	125											mm
69	Stroke length of leveling jack in mm	D	E	60											mm
70	Rod Size of Front outrigger of levelling jack	P	E	NCCM 6110											
Air Line Lubricator Unit															
71	Max oil flow in air line lubricator in liters / hr	P	E	1.625											liters /hr

72	Max pressure in air line lubricator in kg /cm2	P	E	14											kg /cm2
73	Reservoir capacity in air line lubricator in liters	D	E	13											liters
Auxiliary Truck Unit															
74	Make and Model of auxiliary truck	P	E	Ashok Leyland / 1616 IL(4 X 2)											
75	Gross Vehicle Weight of Auxiliary Truck Unit	D	E	16											tonn
76	Max Pay Load of Auxiliary truck	P	E												
77	Max Power of auxiliary truck HP @ rpm	P	E	160 @ 2400						G					hp @ rpm
78	Max Torque of auxiliary truck NM @ rpm	P	E	500 NM @ 1500-1700 rpm						G					nm@rpm
79	Wheel Base of auxiliary Truck unit in mm	D	E	4700											mm
Mast Raising Cylinder Unit															
80	No of mast raising cylinder	P	E	2											
81	Size and stroke of mast raising cylinder unit	D	E	100 x800											mm xmm
Swing out cylinder Unit															
82	Type of swing out cylinder	P	E	Hydraulically based											
83	Opening Diameter of swing out cylinder in mm	D	E	430											mm
Break out Wrench															
84	Cylinder Bore Diameter in mm of break out wrench	D	E	100											mm
85	Stroke in mm of break out wrench	P	E	350											mm
86	Torque in kg-m of break out wrench	P	E	3200											kg-m
Auxiliary Winch															
87	Cable Type of auxiliary wich	M	E	Steel Made											
88	Type of drive of Auxiliary Winch	P	E	Hydaulically											
89	Capacity of auxiliary wich in tonnes	P	E	1.5											tonnes
90	Hoisting speed of auxiliary winch in meters/min	P	E	30											m/min
91	Down /Lowering speed of auxiliary winch in meters/min	P	E	30											m/min
Welding Generator Unit															
92	Make and Model of Welding Generator	P	E	Dynamax/parkash/ Kirlokshar											
93	capacity of Welding Generator	P	E	800 @ 60 % duty cycle						G					Amp @ duty cycle
94	Diameter of electrode	D	E	upto 6 Gauge											Gauge
Drilling Pipe															
95	Drilling Pipe OD in mm	D	E	88.9/114/3											
96	weight of drilling pipe in kg	D	E	60/82											kg
DTH Hammer Unit															
97	Make and Model of DTH Hammer	P	E	BEC/ M 4 3/4 "											
98	Size of DTH Hammer	D	E	120 mm &150 mm											mm

Button Bits															
99	Availability of various size of button Bits with Rig System	P	E	120 mm, 178 mm,200 mm, 150 mm, 165 mm, 228 mm											
100	Make of Various Button Bits	P	E	Beaver	Atlas Copco	Sandvik									
101	Hand grinder shall be provided along 200 number of grinding wheel	P	E	Yes											
103	Instruction Manuals 3 set	P	E	Yes											
104	Warranty in years	P	E	3	5	10				G					
Standards accessories for 150 meters															
105	3 1/2" OD x 7.5 mm thick x 10 ft long Seamless drill rod with EN 19 Adapter	SA	E	60											
106	4 3/4" Valveless hammer complete assembly	SA	E	2											
107	4 3/4" Button bit suitable for valveless hammer	SA	E	3											
108	6" Valveless hammer complete assembly	SA	E	2											
109	6 1/2" Button bit suitable for valveless hammer	SA	E	3											
110	7 7/8" Main stabilizer x 8 feet long	SA	E	1											
111	9 7/8" Main stabilizer x 8 feet long	SA	E	1											
112	12 1/4" Main stabilizer x 8 feet long	SA	E	1											
113	14" Main stabilizer x 8 feet long	SA	E	1											
114	16" Main stabilizer x 8 feet long	SA	E	1											
115	7 7/8" Intermediate stabilizer x 4 feet long	SA	E	2											
116	9 7/8" Intermediatestabilizer x 4 feet long	SA	E	2											
117	12 1/4" Intermediate stabilizer x 4 feet long	SA	E	2											
118	14" Intermediate stabilizer x 4 feet long	SA	E	2											
119	16" Intermediate stabilizer x 4 feet long	SA	E	2											
120	7 7/8" Baker float suitable foe 3 1/2"rod	SA	E	1											
121	9 7/8" Baker float suitable foe 3 1/2"rod	SA	E	1											
122	12 1/4" Baker float suitable foe 3 1/2"rod	SA	E	1											
123	14" Baker float suitable foe 3 1/2"rod	SA	E	1											
124	16" Baker float suitable foe 3 1/2"rod	SA	E	1											
125	7 7/8" R R bit (Steel tooth)	SA	E	2											
126	9 7/8" R R bit (Steel tooth)	SA	E	2											
127	10 5/8" R R bit (Steel tooth)	SA	E	2											
128	12 1/4" R R bit (Steel tooth)	SA	E	2											
129	14" R R bit (Steel tooth)	SA	E	2											
130	16" R R bit (Steel tooth)	SA	E	2											
131	7 7/8" R R Bit (Tungusten Carbide)	SA	E	2											
132	9 7/8" R R Bit (Tungusten Carbide)	SA	E	2											
133	10 5/8" R R Bit (Tungusten Carbide)	SA	E	2											

134	12 1/4" R R Bit (Tungusten Carbide)	SA	E	2											
135	14" R R Bit (Tungusten Carbide)	SA	E	2											
136	16" R R Bit (Tungusten Carbide)	SA	E	2											
137	7 7/8" Drag bit	SA	E	2											
138	9 7/8" Drag bit	SA	E	2											
139	12 1/4" Drag bit	SA	E	2											
140	14" Drag bit	SA	E	2											
141	16" Drag bit	SA	E	2											
142	Subs	SA	E	1 set											
143	Fishing tool for 3 1/2" drill rod male	SA	E	1											
144	Fishing tool for 3 1/2" drill rod female	SA	E	1											
145	Backer float suitable foe 3 1/2" rod	SA	E	4											
	4 1/2" Odex Spares														
146	Guide device	SA	E	1											
147	Guide Sleeve	SA	E	4											
148	Reamer bit	SA	E	2											
149	Pilot bit	SA	E	1											
150	Cashing shoe	SA	E	4											
151	Discharge head	SA	E	1											
152	Duct Hose	SA	E	1											
153	Casing pipe welding fixture	SA	E	1											
154	Spanners	SA	E	1											
	6 1/2" Odex Spares														
155	Guide device	SA	E	1											
156	Guide Sleeve	SA	E	4											
157	Reamer bit	SA	E	2											
158	Pilot bit	SA	E	1											
159	Cashing shoe	SA	E	4											
160	Discharge head	SA	E	1											
161	Duct Hose	SA	E	1											
162	Casing pipe welding fixture	SA	E	1											
163	Spanners	SA	E	1											
	Standards accessories for 200 meters														
164	4 1/2" OD x 8.5 mm thick x 15 ft long Seamless drill rod with EN 19 Adapter	SA	E	67											
165	3 1/2" OD x 7.5 mm thick x 10 ft long Seamless drill rod with EN 19 Adapter	SA	E	40											
166	4 3/4" Valveless hammer complete assembly	SA	E	2											
167	4 3/4" Button bit suitable for valveless hammer	SA	E	3											

168	6" Valveless hammer complete assembly	SA	E	2											
169	6 1/2" Button bit suitable for valveless hammer	SA	E	3											
170	8" Valveless hammer complete assembly	SA	E	2											
171	8 " Button bit suitable for valveless hammer	SA	E	2											
172	8 1/2" Button bit suitable for valveless hammer	SA	E	2											
173	7 7/8" Main stabilizer x 8 feet long	SA	E	1											
174	9 7/8" Main stabilizer x 8 feet long	SA	E	1											
175	12 1/4" Main stabilizer x 8 feet long	SA	E	1											
176	14" Main stabilizer x 8 feet long	SA	E	1											
177	16" Main stabilizer x 8 feet long	SA	E	1											
178	17 1/2" Main stabilizer x 8 feet long	SA	E	1											
179	7 7/8" Intermediate stabilizer x 4 feet long	SA	E	2											
180	9 7/8" Intermediatestabilizer x 4 feet long	SA	E	2											
181	12 1/4" Intermediate stabilizer x 4 feet long	SA	E	2											
182	14" Intermediate stabilizer x 4 feet long	SA	E	2											
183	16" Intermediate stabilizer x 4 feet long	SA	E	2											
184	17 1/2" Intermediate stabilizer x 4 feet long	SA	E	2											
185	7 7/8" Baker float suitable foe 4 1/2"rod	SA	E	1											
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188	14" Baker float suitable foe 4 1/2"rod	SA	E	1											
189	16" Baker float suitable foe 4 1/2"rod	SA	E	1											
190	17 1/2" Baker float suitable foe 4 1/2"rod	SA	E												
191	7 7/8" R R bit (Steel tooth)	SA	E	2											
192	9 7/8" R R bit (Steel tooth)	SA	E	2											
193	10 5/8" R R bit (Steel tooth)	SA	E	2											
194	12 1/4" R R bit (Steel tooth)	SA	E	2											
195	14" R R bit (Steel tooth)	SA	E	2											
196	16" R R bit (Steel tooth)	SA	E	2											
197	17 1/2" R R bit (Steel tooth)	SA	E	2											
198	7 7/8" R R Bit (Tungusten Carbide)	SA	E	2											
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200	10 5/8" R R Bit (Tungusten Carbide)	SA	E	2											
201	12 1/4" R R Bit (Tungusten Carbide)	SA	E	2											
202	14" R R Bit (Tungusten Carbide)	SA	E	2											
203	16" R R Bit (Tungusten Carbide)	SA	E	2											
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208	14" Drag bit	SA	E	2											
209	16" Drag bit	SA	E	2											
210	17 1/2" Drag Bit	SA	E	2											
211	Subs	SA	E	1 set											
212	Fishing tool for 3 1/2" drill rod male	SA	E	1											
213	Fishing tool for 3 1/2" drill rod female	SA	E	1											
214	Backer float suitable foe 3 1/2" rod	SA	E	4											
	4 1/2" Odex Spares														
215	Guide device	SA	E	1											
216	Guide Sleeve	SA	E	4											
217	Reamer bit	SA	E	2											
218	Pilot bit	SA	E	1											
219	Cashing shoe	SA	E	4											
220	Discharge head	SA	E	1											
221	Duct Hose	SA	E	1											
222	Casing pipe welding fixture	SA	E	1											
223	Spanners	SA	E	1											
	6 1/2" Odex Spares														
223	Guide device	SA	E	1											
224	Guide Sleeve	SA	E	4											
225	Reamer bit	SA	E	2											
226	Pilot bit	SA	E	1											
227	Cashing shoe	SA	E	4											
228	Discharge head	SA	E	1											
229	Duct Hose	SA	E	1											
230	Casing pipe welding fixture	SA	E	1											
231	Spanners	SA	E	1											
232	No of installations and succssful of drilling rigs of similar capacities of same OEM	P	T												
233	Standard Tool Kit for maintananace and Trouble Shooting to be provided with Machine	P	E	Yes											
234	Demonstration of equipment and training to be provided after completing supplies before Acceptance	P	E	Yes											
235	ISO certification No. of manufacturer of machine	R	Ch	Yes	No										
236	ISO certification issued date, If ISO certificate not availiable then put NA	R	T												

237	Availability of test report from central govt/ NABL/ILAC accredited lab covering all parameters	R	C h	Yes											
238	Test report number	R	Ch												
239	Test report date	R	Ch												
240	Name of test lab	R	Ch												
241	Address of test lab	R	Ch												
242	Copies of all certifications and reports to be provided to buyer on demand at time of supplies	R	Ch	Yes											