



## SHIVGANGA DRILLERS PVT. LTD.

Section 1	General description	
	Main technical specification for drilling rig	<b>STEWART &amp; STEVENSON 1000HP</b>
	Model of drilling rig	CROWN KING
	Max. hook load	440,000LBS
	Line	5×6
	Diameter of drilling line	1-1/8"
	Drawworks	1000HP
	Opening diameter of rotary table	23"
	Rated power/No. of drilling pump	(1000HP) / 2 + 1 (Optional) pcs
	Type of mast	TELESCOPIC
	HEIGHT STANDING	118 FT
	Capacity of setback (4 1/2" drill pipe)	300,000 POUNDS
	Rotary Capacity	450,000 LBS
	Type of substructure	SCOPING STRUCTURE
	Height of drill floor	16 FT
	Area of drill floor (length×width)	37.3' X 14'
	Bottom of Rotary Table to Ground	14' 3"
	Clear height under rotary beam to Ground	13'3"
	ALLISON TRANSMISSION	2 - ALLISON MODEL S5610H
	Rated power x No. of engine	DETROIT SERIES 60 500BHP X 2
	Type x No. of enerator	14 LITRE DETROIT DIESEL 415KW X 2
	GEAR BOX	RIGHT ANGLE DRIVE: S&S GEAR BOX
	Total effective volume of system	1200BBL
	Electrical system power	415KW/SERIES 60
SECTION 2	DRAWWORKS	
2.1	Drawworks	S&S MODEL CE 1000SD
	Technical specification :	
	Rated input power	1000HP
	Hoisting capacity:	McKissick 250T -10LINES
	Nominal depth rating:	13,500' OF 4 1/2" DP
	Diameter of wireline	1-1/8"
	Automatic bit-feed speed	AUTOMATIC DRILLER PASSON
	CONVENTIONAL BRAKES	

SECTION – 3	MAST & SUBSTRUCTURE	
3.1	Mast Assembly	S & S
	Available height of mast	118'
	TECH SPEC (Mast)	63' X 12' X 6'
3.2	Crown block assembly	S&S
3.3	Substructure Assembly	S&S
3.3.1	Substructure	S&S
3.3.2	Substructure accessories	
	CENTRE TUB	LES WILSON
	DOGHOUSE	LES WILSON
	DRILL LINE SPOOL RACK	3500FT SPOOL RACK
Section 4	ROTARY TABLE	IDECO -23-F
4.1	BLOCK	McKissick 250TON
SECTION – 5	TOP DRIVE SYSTEM	
5.1	Top Drive system	TESCO HXI 700
SECTION – 6	MUD PUMPS	
6.1	LANZHOU HUATONG 1000	2 NUMBERS + 1 OPTIONAL 1000HP
SECTION – 7	SHALE SHAKER (line type)	
7.1	Model	DUAL VORTEX LINEAR SHAKERS
7.2	Desander	3 CONE
7.3	Poorboy degasser	LES WILSON VERTICAL TYPE
SECTION 8	RIG INSTRUMENTATION & CONTROL SYSTEM	
8.1	Driller's control cabin	MARTIN DECKER
8.2	Drilling Recorder, 8 Pen	
	The system package consists of:	
	A) 8 Pen English Recorder 24 Hr.	
	B) Type EB Weight Cylinder, 100,000 LB Single Line Load	
	C) Floor Stand with Main Spring (p/n 260545-102)	
	D) 8 Pen Cylinder Configuration (p/n Code GK)	
	E) Rig Air Filter/ Instrument Air Filter Regulator (p/n Code 6)	
	G) DAQ/ Ratemaster Signal	
8.3	DAQ System	PASSON
8.4	Analogue Meters	NOV
	Weight Indicator	MARTIN DECKER
8.5	Communication system	GTC
8.5.1	10-station Intercom system (explosion-proof station according to explosion-proof area classification of API standard)	
SECTION 9	RIG ENGINES	
9.1	Main Generator set	DETROIT
9.2	Auxiliary generator set	CATTERPILLAR

Section 10	GENERATOR TRAILOR	HH
10.1	Technical Specification :	LES WILSON 2 X GEN 415KW-556 X 2HP Detroit Diesel
10.2	Overall dimension	53' X 11' X 13.6'
Section 11	CELLAR PUMP:	
11.1	A. One (1) diaphragm pump driven by explosion proof electric motor with matching frequency complete with all suction and delivery lines mounted on a 1 feet high suitable oil field type skid, for cellar cleaning purpose. Pump should be suitable for class I, dir. 2 areas and gas group I, IIA & IIB and with Flexible coupling. (Alternately, a suitable cellar ejection system may be offered)	
Section 12	Eye wash unit	
	1 in doghouse on floor, 2 on mud tanks	
SECTION 13	WELL CONTROLL EQUIPMENT	
13.1.1	Choke Manifold	3-1/8", WP-5000PSI,API 16, Make- Windlass
13.1.2	Kill Manifold	3-1/8", WP-5000PSI,API 16, Make- Windlass
13.2	BLOWOUT PREVENTIG EQUIPMENT	
13.2.1	13-5/8" Double RAM	
	BOP , U BOP DBL, Remanufactured, Cameron 13-5/8" -5000psi Flange X Flange Double Ram, Standard Bonnet, Upper Cavity, Bottom Cavity, Large Bore, Shear W/Tandem Booster W / 4 each 4-1/16" 5000psi. Remanufactured per API-16A.	
13.2.2	ANNULAR BOP	
	13-5/8" Shaffer Annular BOP	
13.2.3	11" Double RAM BOP	Shanghai Shenkai Petroleum & Chemical Equipment Co., Ltd.
	Working Pressure- 5000 psi	
13.2.4	11" Annular BOP	Rong Sheng Machinery Manufacturer LTD.(HBRS)
	Working Pressure- 5000 psi	
SECTION 14	DRILL PIPE	
14.1	5" Drill Pipe- 19.5 ppf , G-105, TK-34, IPC and smooth X hard banding(NOV Grand Predico)	192 Joints
14.2	5" Drill Pipe- 19.5 ppf , S-135, TK-34, IPC and Duraband X hard banding(NOV Grand Predico)	179 Joints
SECTION 15	HEAVY WEIGHT DRILL PIPE	
15.1	5" Heavy Weight Drill Pipe	12 Joints
SECTION 16	DRILL COLLAR	
16.1	6-1/2" Drill Collar	10 Joints
16.2	8" Drill Collar	10 Joints
Section 17	STABILIZER	
17.1	17-1/2"	1 Nos.- Near Bit, 1 Nos.- String
17.2	12-1/4"	1 Nos.- Near Bit, 1 Nos.- String
Section 18	KELLY	
18.1	5-1/4" Hexagonal	