

**Man Portable Shot Hole Drilling Rig Depth Capacity 30 Meter Hole
With 80 mm Bit Dia With Air.**

**SEISMIC SHOT HOLE MAN PORTABLE DRILLING RIG DRILLING DEPTH CAPACITY
30 METER Hole With 80 MM Bit Dia With Air.**

GENERAL DESCRIPTION

Man portable drill for shot hole drilling to conduct seismic survey in hard to inaccessible areas, the drill should be able to drill with bit and DTH hammer in all geological formation like; lime stone, hard sand stones and hard rocks.

1 FEATURES

Man portable Rig for drilling depth capacity 30 meters hole of diameter 80mm.

The Rig should be modular type, modules weight must not more than 75 kg.

The number of module must not more than Six.

Maximum Wet / operational weight of the rig must not exceed 325 Kg.

All modules must be fitted in a light weight, high strength steel frame for transportation, and protection in field environment.

All modules and interconnect Hoses must be designed for quick assembling / coupling and disassembling / decoupling for easy field operation, maintenance, repair and transportation management.

The dimension and volume of the module must be such type that, it could be easily carried by men on hilly foot tracks.

All modules must be with carrying hooks.

The MP Rig must be able to work between -05°C to + 50°C temperature.

The Rig must be brand new and latest Model.

2 Engine

Type : Gasoline

Horse Power: 25 hp (minimum), 4 stroke, air cooled engine, Self-start with light battery,.

Gasoline tank capacity 18 to 20 liters.

Engine standard Tool Kit. 05 Nos.

3 Hydraulic Drive

Hydraulic Pump gear type suitable for rotation, feed drive (pull up & down) with cooling and filtration system for 30 meter drilling capacity in all geological formation ref. General Description.


The hydraulic flow is controlled by directional control valves with pressure compensator for each driven unit, power swivel, feed drive.

Hydraulic tank capacity 30 to 40 liters or compatible to hydraulic system.


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| 4 | <u>Mast and Feed Device</u> Metal alloy structure Mast with slide bearing rails or chain for power swivel travel through orbit motor. Mast height suitable for 1.75 meters' stroke for 1.5 meters' drill pipe. Pull up capacity: 1500 Kg (3190 lbs) minimum. |
| 5 | <u>Power Swivel</u> Air drilling swivel gear type, driven by high torque hydraulic motor. Clearance of flushing sleeve must be compatible to drill pipe inner diameter. Rotational speed 150 rpm minimum. Air lubricator for DTH Hammer. |
| 6 | <u>Base Frame</u> Metal alloy Base frame with four mechanical jacks with footplates to support and align the system. |
| 7 | <u>Control Panel</u> Hydraulic valve for feed drive (pull up & down) and rotation Valves for flow and pressure adjustment. Hydraulic system pressure and temperature Gauges should be installed on visible point for monitoring temperature & pressure during operation. All control lever working position and other specs of components name plate must be in English language. |
| 8 | <u>Drill Pipe & Accessories</u> Drill pipe 2-3/8" Outer diameter (60 mm), Length 5 feet (1.5 m), API regular Pin Box 20 Nos. for each MP Rig. Sub: (Drill pipe to RD 50 Pin DTH). 01 No. for each MP Rig. Sub: (Drill Pipe to Bit) 01 No. for each MP Rig. DTH Hammer (Bulroc) BR-2 or equivalent 05 No. for each MP Rig. BR-2 Button Bit 80mm dia. or equivalent 08 Nos. for each MP Rig. Note: - In case of equivalent, the Bidder will provide equivalence Certificate from OEM that specification, shape, size and performance are same in all aspects. If equivalent DTH Hammer & Button Bit do not perform satisfactorily during testing phase of sample rig (as per Clause 15 (ix) then Bidder will be bound to provide BR-2 (BULROC) Hammer & Button Bit as per ordered quantity and price. |
| 9 | <u>MANUALS</u> Bidder will provide 05 set hard copy of Workshop Manuals (Instruction / Operational, Maintenance & parts book) in English. |
| 10 | <u>RUNNING SPARES</u> The two years running spares list un priced i.e. engine, pump, valve, motors (Feed & Rotation), swivel, cooler and filters for hydraulic system & engine etc. must be provided with technical bid for technical evaluation and selection, increase or decrease in quantity. The cost of spares should not more than 10% of the total cost of main Equipment. The cost of spare will not be included in financial evaluation. |


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| 11 | <u>COMMISSIONING</u> Two Engineers from the manufacturer will visit Pakistan for fifteen days (Five working days visit of manufacturer's Engineer during Stage of testing of sample Rig, and 10 working days visit of manufacturer's engineer for commissioning / startup of all the remaining 49 Rigs after delivery to OGDCL work place) to commission the Rigs at Islamabad/field. Air tickets, Boarding, Lodging, transport and security of Engineers will be the responsibility of the Bidder and local Agent. |
| 12 | <u>OEM CERTIFICATE</u> Original Equipment Manufacturer certificate of complete Drill (MP Rig) and its components / assy. Like engine, hydraulic pump, motors, valve & swivel etc. will be provided with Technical Bid. |
| 13 | <u>WARRANTY</u> All the equipment will be warranted for one year and Warranty period will start after completion of commissioning. If any defect occurs in Rigs or its components during field operation in warranty period, OGDCL will claim warranty replacement of defective part / component. The Bidder will responsible to provide the replacement of defective parts / components free of cost and freight charges to OGDCL in Pakistan within minimum time period. In this regard Bidder must provide warranty replacement assurance certificate with technical bid. |
| 14 | <u>PROFESSIONAL DEVELOPMENT PROGRAM</u> Bidder will arrange one week training at manufacturer facility for two Technical officers from indenting department for operation, repair and maintenance, drilling & hydraulic system of MP Rig, expenses excluding air fare, boarding and lodging, of trainees will be borne by bidder. |
| 15 | <u>TERMS AND CONDITIONS</u> |
| i | Only Original Equipment Manufacturer of Man Portable Drilling Rigs can participate in Bidding process, the Bid of supply houses & middleman will not be accepted. |
| ii | The Man Portable Drill Manufacturer must have 15 year experience in manufacturing of Man Portable Rig. The Bidder must submit the documentary evidence i.e. Business License / Business Registration Certificate of Rig Manufacturing from concerned Government approved authority / Chamber of Commerce (in English). |
| iii | Copy of valid ISO 9001 / API / EC certificate or equal international quality standard certificate must be provided with technical Bid. |
| iv | The bidder must provide last 08 years sale record with technical bid showing sale of at least 150 Nos. of quoted or similar drilling capacity Man Portable Rig (25 to 30 meter) sold to different multinational companies other than country of Origin. Also provide Purchase Order / Sale Invoice showing the complete name, address / email, phone number etc. of buyer company for verification. |
| v | Bidder will provide certificate of performance from different 03 well renowned companies other than country of Origin. The certificate must be on buyer company letter head and should indicate name and designation of signing authority along with complete phone no and E-mail / web address for verification. |
| vi | Manufacturer / Bidder must provide technical literature / brochures & catalogues (Instruction / operational, maintenance & parts book) of quoted MP Rig (in English) having detail specification of each components, also provide the drawing of complete Rig showing each module separately with weight. |
| vii | 01 set of all above catalogues, brochures and certificates must attach with technical bid for technical evaluation. |


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| viii | The Bidder must provide confirmation for availability of spares for next five years and also an early response of telephone and e-mail communication whenever required to OGDCL. |
| ix | In order to secure the OGDCL investment, the following procedure must be adopted. “The financially lowest bidder will deliver one complete sample Man Portable Rig along with drilling pipe and drilling tools etc. (without TPI) by Air for testing, also depute two relevant engineers / professional (ref clause # 11) for five working days to test, commission and witness performance during testing. The Rig will drill 25 holes with one DTH Hammer & Button Bit of depth 20-30 meters, during the testing if MP Rig will not perform as per SOR the MP Rig & Bid will be rejected. Subject to satisfactory performance of delivered sample Man Portable drill, remaining 49 No. Rigs will be supplied C & F by sea and will be commissioned (ref clause # 11) by manufacturer's Engineers for ten (10) working days. Manufacturer will also certify that the remaining 49 Rigs will perform as per sample provided for testing. |
| x | Third Party Pre-Shipment Inspection (TPI) of 49 Rigs along with spares will be carried out on expense of OGDCL at manufacturer's premises. The Manufacturer will provide full support to 3 rd Party Inspector during the inspection and testing process. Two Technical officers from indenting department will witness pre-shipment TPI at OGDCL cost. |
| xi | Bidder will provide certificate with technical bid that his local representative will also be fully responsible for in time provision of warranty replacement of defective material as claimed by OGDCL. |
| xii | The Bidder will provide one (01) MP Rig by Air to OGDCL for field testing. After satisfactory testing of Man Portable Rig, the Bidder will provide the remaining 49 Rigs within the total delivery period. Total delivery period is 150 days. |
| xiii | All technical literature and certificates should be in English Language, certified translation to be provided in case documents are in any other language. |
| <p>► NOTE: - Bidder must provide original Signed & Stamped compliance sheet 1 to 15 with technical bid.</p> | |


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