BG6051
MOTOR GRADER

- BEML BSIII CEV Compliance Engine
- High Productivity
- Easy Operation
- Operator Comfort

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flywheel power (net)</td>
<td>108 kW @ 1800 rpm</td>
</tr>
<tr>
<td>Blade Length</td>
<td>3,710 mm</td>
</tr>
<tr>
<td>Operating Weight</td>
<td></td>
</tr>
<tr>
<td>With ROPS Cabin</td>
<td>14,700 Kg</td>
</tr>
<tr>
<td>With Ripper</td>
<td>16,880 Kg</td>
</tr>
</tbody>
</table>

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Salient Features:

Product:
- BEML BG605I Motor Grader has been fitted with Bharat Stage III CEV Compliant BEML Engine.

Performance:
- With its high engine horse power and operating weight BG605i is ideal for heavy duty road construction / maintenance jobs at mining and at demanding job sites.

Productivity:
- High Power engine coupled with high performance blade ensures high productivity. Finger tip control of transmission gear shifting provides high maneuverability.

Comfort:
- Rear Frame Mounted Operator’s compartment enables ease of viewing the machine travelling direction. Operator's comfort is enhanced by adjustable suspension seat and rubber pad mounted operator’s compartment.

**Engine**

- Make: BEML
- Model: BSAA6D125 - BSIII CEV
- Type: Diesel, 4-Stroke, Water Cooled, Turbocharged, Overhead Valve, Direct Injection, Mechanical variable speed governor.
- Power (Gross): 112 kW @ 1800 rpm
- Maximum Torque: 721 Nm @ 1200 rpm
- Displacement: 11.04 l
- Bore X Stroke: Ø 125x150mm
- Electricals
  - Alternator: 24V, 45A
  - Starting Motor: 24V, 7.5 kW
  - Battery: 2X12V, 200 Ah (Optional 2X12V, 160Ah)

**Transmission**

- Make: BEML
- Type: Hydro shift Transmission
- Travel Speeds (kmph)
  - Range: 1st 2nd 3rd 4th 5th 6th
  - Forward: 3.5 6.3 10.5 14.5 26.1 43.6
  - Reverse: 4.1 7.4 12.4 17.2 30.9 --
- Max Drawbar pull: 7280 Kg
- Max. speed (kmph): Forward - 43.6 Reverse - 30.9

**Axles**

- Front Axle
  - Type: Elliot - Type
  - Center Ground Clearance: 625mm
  - Oscillation Angle: 15° (each side)
  - Front Wheel Leaning: 23° (each side)
- Rear Axle
  - Type: Full floating rear axle is made of forged heat treated steel.

**STANDARD EQUIPMENT**

- Water level gauge, Engine oil pressure gauge, Fuel gauge, ROPS Canopy, Ammeter, Headlights, Panel lamps, Speedometer, Stop and tail lamp, Work lamp, Turn signal lights, Rear view mirrors, Electric horn, Tool kit with tool box, Tachometer, Air pressure gauge, Back-up light, Back-up alarm, Cold start system, Front pull hook, High beam indicator lamp, Battery Charging lamp and Dust indicator.

**OPTIONAL ATTACHMENTS**

1. Scarifier
   - V-type, 2-stage adjustable, hydraulically controlled.
   - No of teeth: 11 nos.
   - Digging width: 1225mm
   - Max. Digging depth: 390mm
   - Max. Lift above ground: 465mm
   - Scarifier base: 1000mm
   - Scarifier Load: 4995 kg
   - Digging angle
     - Standard: 66°
     - Max / Min: 72° / 60°
   - Additional weight: 635 kg
2. Front dozer blade
   - Front arc, box section type, hydraulically controlled.
   - Blade length x Height: 2500mm x 935mm
   - Max. Drop below ground: 175mm
   - Max. Lift above ground: 545mm
   - Blade base: 1825mm
   - Digging Angle: 55°
   - Additional weight: 935 kg
3. Rear Mounted Ripper with Counter Weight
   - No of shanks: 3 no’s
   - Max. Digging width: 2195mm
   - Max. Digging depth: 460mm
   - Max. Lift above ground: 550mm
   - Max. Digging width: 2195mm
   - Additional weight: 1930 kg
4. Miscellaneous
   - ROPS Cab (Additional weight): 765 kg (approx.)
   - Tyre Inflation kit
**HYDRAULICS**

Type: Three gear pumps powering the work equipment, steering and transmission hydraulic circuits.

**Capacity**

1. Work equipment: 2 X 39 l/min
2. Steering: 50 l/min
3. Hydro shift transmission: 78.0 l/min

**Hydraulic Motor**

Type: Orbit type hydraulic motor
Output power (for blade rotation): 18 kW (24.5 hp)
Capacity: 70.0 l/min

**Hydraulic Cylinders**

Type: Double acting piston type, each connected to pilot check valve for positive cylinder action.

**Control Valves**

Type: 4-way spool type & 3-way spool type with built in relief valve.

**Relief Valve Settings**

Work Equipment: 175 kg/cm²
Steering: 140 kg/cm²

**STEERING**

Type: Orbitrol, Full Hydraulic Steering System

**Cylinders**

Type: Double acting
Quantity: 2 Nos.
Max. Steering Angle: 40° left & right of front wheels
Min. Turning Radius: 11m

**WHEELS**

Standard Fitment: 14.00X24 – 16PR (Tube Type) G-2 type Tyre
Optional Fitment: 14.00X24 – 16PR (Tube Type) G-3 (Rock) type Tyre
Inflation pressure: 2.8 kg/cm²

**BLADE RANGE**

All blade movements and position can be hydraulically controlled from the operators seat.

Max. Lift above ground: 400mm
Max. Drop below ground: 570mm
Max. Shoulder reach:
- Left: 1670mm
- Right: 1955mm
Max. Bank cutting angle: 90°
Cutting angle standard: 36°
Maximum: 71°
Minimum: 24°

**BLADE EQUIPMENT**

**Material and Specifications are subjected to change without notice, illustrations may include optional equipment & accessories.**
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