# बी ई एम एल **किस्स्मा**

### **BH60 DUMP TRUCK**

#### **SALIENT FEATURES**

- Performance: High power BEML BSA6D170A-1 engine, Ruged CL(B)T 6063 transmission with automatic lock-up clutch and heavy-duty planetary axle provide optimum combination of speed and tractive effort.
- Productivity: High power to weight ratio gives ample reserve power for faster cycle time.
- Reliability: Adjustment-free wet multiple disc brakes for rear and dry caliper disc brakes for front axle offer longer life.
- Serviceability: low maintainability and repairability index, evaluated through SAE J 817A, compared to any other dumper in its class.
- Manoeuvrability: Orbitrol Power steering with a good combination of steering angle, turning circle, tread and wheel base provide high degree of manoeuvrability.
- Control: Ideally located spacious cabin with ergonomically designed operator seat and control offer maximum comfort and opeartional ease.
- Safety: Features include Integral ROPS cabin, emergency steering, dual brake system to meet relevant safety standards.

Max. payload: 55,340 kg

Capacity(heaped) SAE / ISO 2:1:36.5 m<sup>3</sup>

Flywheel power (net): 504 kW(675 hp) @ 2100 r/min



## BH60 REAR DUMP TRUCK SPECIFICATIONS



Engine			Steering System		
Make BEML					
Model BSA		BSA6D170A-1	Type Orl		bit, fulltimepower steering
Туре		Diesel, 4-stroke, twin	Cylinder		
		turbocharged and after cooled, direct injection,	Туре	Do	ouble acting, piston type
		water cooled.	Quantity	Tv	vo
Flywheel power		504 kW (675 hp) @2100 rpm	Bore X stro	oke 10	0 X 353 mm
Maxmium torque		2750 N-m (280 kgm) @ 1400 rpm	Relief press		.7 MPa (140 kg/cm2)
No. of Cyli	nders	6 inline	Emergency steering		ectrically driven hydraulic imp & motor
Bore & Str	oke (mm)	170 x 170			
Displaceme	nt	23.15 ltrs (23150 cm3).	Meets the SAE J53 & 5010 performance requirements		x 3010 periormance
Electricals			Performance	e	
Alternator		24 V DC, 50A	Turning Rad	lius 39	Degree
Starting mot	tor	2 X 24 DC 7.5kW	Turning circ		9.6 m
Battery		2 x 12V, 200Ah	diameter		.0
	Tran	smission		Hydra	ulic system
Model	Allison CL(B)T 6063		Hydraulic p	oump	
Туре		ft with automatic lock up ith ATEC)			Triple gear pump for hoist, steering, brake oil
Drive Axle Full floating		ng			cooling
Differential			II I		491 ltr/min @ 2185 rpm
Type Traction sensing, Automatic		steering system			
Ratio 3.85:1		Flow to brake 709 ltr/min @2185 r		709 ltr/min @2185 rpm	
FINAL DRIVE			Relief pressure		
Type Planeta		ry reduction	Hoist		17.2 MPa (175 kg/cm2)
Ratio 5.33:1			Brake oil cooler		1.0 MPa (kg/cm2)
Total reduction 20.52:1		<u> </u>			1
Travel spee	d (km/h)		Hoist cylinder Two. 3 stage double acting, telescopic type		
Range 1st 2n		nd 3rd 4th 5th 6th 7th	Body hoist	time	12 + 2 sec
Forward 10 14		19 26 35 48 65		(	CABIN
Reverse 7.0 2.0					ROPS cabin provided with
FRAME		Туре	safety gladashboar	ass & electronic display	
Туре		Sox section construction made of igh tensile strength steel.		1 '	AE j 1040 & ISO 3471

## BH60 REAR DUMP TRUCK SPECIFICATIONS

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<b>**</b>	BRAKING SYSTEM		
Front:	All over-hydraulically, dry caliper disc.		
Rear	All over-hydraulically, wet caliper disc.		
Emergency brakes	All over-hydraulically, automatic application through relay emergency valves		
Parking brake	Air-operated, disc type parking brake		
Retarder brake	Rear brake serves as retarder brake		
Meets the SAE J	1473 and ISO 3450 performance		

SYSTEM REFILL CAP	PACITIES		
System	Capacity (ltrs)		
Cooling systems	201		
Fuel tank	780		
Engine lube oil	60		
Transmission& torque converter	61		
Final drive (each side)	35		
Differential	100		
Hydraulic tank	310		
Air tank	175		

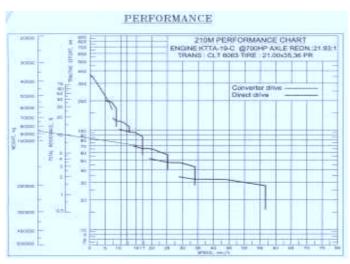
	SUSPENSION			
Туре				
Front	Wheel mounted, hydropneumatic, integral rebound control.			
Rear	Axle mounted, inverted, hydrropneumatic, integral rebound control.			
Cylinders	Front	Rear		
Quantity	2 Nos	2 Nos.		
Bore X stroke	250 X 376	250 X 190mm		
Charging Pressure	2.0 MPa (20.6 kg/cm2)	1.5 MPa (15.35 kg/cm2)		

Pressure (2		0.6 kg/cm2) (15.		.35 kg/cm2)	
Ok.	MASSES				
Net vehicle mas	42,500 kg				
Rated payload	55,340 kg				
Gross vehicle ma	97840 kg			]	
Mass distribution	Empty (kg)	)	Loaded (kg)	]	
Front axle		19975(47	(%)	32287(33%	
Rear axle		22525(53%) 65553(6		65553(67%)	)

_			ЗОДҮ	
		Plate thickness	SS	
1		Bottom plate		20mm
		side plate		10mm
		Front plate		12mm
		Target area (l Width)	ength x	6230 X 3850 mm
_		Depth		1643mm
		Volumetric Ca	apacity	
		Struck		26.5m3
		Heaped - SAE/ISO(2:1	)	36.6m3
_		<b>6</b>	TYRES	S AND RIMS
_	-	Size	24.00 - 35	5, 42 PR(E-4), tubeless- Standard

#### BH60 REAR DUMP TRUCK SPECIFICATIONS





How to use this chart:

- 1. Enter chart at weight (gross vehicle weight)
- 2. Determine total resistance (grade plus rolling resistance)
- 3. Connect point on weight scale with point on total resistance scale and project it to tractive effeort scale. Read required tractive effort.
- 4. Read horizontally from required tractive effort to intersect to appropriate curve. Project down to speed scale
- 5.Read vehicle speed for given weight and total resistance.

### STANDARD ACCESSORIES

**GENERAL:-**Integral ROPS cabin, electronic dashboard systems, vandalism protection cap (Fuel tank), head and tail lights, horn, turn singnal lights, alternator, eletric starter, key switch, wiper motor, engine shut - off switch, manual emergency steering, wind-shield washer, right & left hand mirror, portablle fire extinguisher, tool kit, parking brake valve, tilt steering wheet and column, central warning lamp & burger, battery cut-off switch, dump brake, backup alarm, catwalk, mudflaps,body lock ropeand ejectors, cabin floor mat, safety seat belt, co-operator seat, front brake cut off switch and emergency brake, centralised lubrication system, exhaust heated body, twin fresh air fan.

**Gauses:-** Ammeter, voltmetter, air pressurre, engine oil pressure, wter temprature, transmission oil temprature & pressure, brake oil temprature, air cleaner restriction, speedometer, tachometer, electrical hour meter & fuel level.

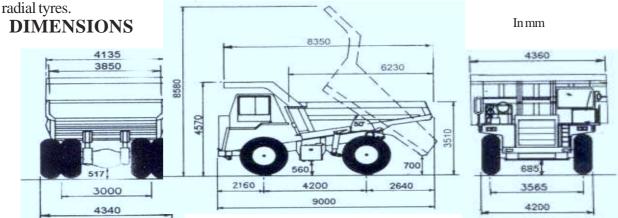
**Guards:-** Engine belly guard, cab spill guard, drive line protector, rock guard, radiator fan guard and hand (meets ISO 3457 requirements)

**Indicators:-** Hi-beam, reverse, turn signal, body-up, lube oil pressure, watre temperature, parking brakeand emergency steering "ON", alternator warning, transmission il temperature & pressure, fuel level, air pressure & hydraulic oil temperature

**Alarms:-** Air prassure, water temprature, transmission oil temperature, lube oil pressure, hydraulic oil temperature, transmission filter clogging, body - up and parking brake "ON"

#### **Optional Accessories:-**

Tyre Inflation kit, tachograph, suspension charging kit, auto emergency steering, air conditioner and heater unit, exhaust mufler, fast fill system for fuel, cold starting kit (APS), fog lights &



- 1) Materials & specifications are subject to change without notice.
- 2) Illustrations may include optional eqipment and accessories and may not include all standard accessories.
- 3) All the specifications meets relevant ISO standard.