



Salient Features:

- Turbocharged BEML BS6D170-1
- Power Shift Transmission
- Operator Comfort with Arm chair steering
- Pilot Operated Hydraulic System for work attachment
- Wet Multiple disc steering clutches and brakes
- Durable work attachment
- Segmented Sprockets
- Grooved-type Floating Seals
- Reduced vibration and noise level
- Hexagonal ROPS-FOPS Cabin for better visibility



BD355

Flywheel horsepower (net) : 310 kW (416HP) @

2000 rpm

Operating mass (with Semi-U dozer)

: 46550 kg

BD355 CRAWLER DOZER

Salient Features:

BEML BS6D170-1 Diesel Engine : Features a generous power to weight ratio for dynamic dozing performance.

Power Shift Transmission: Smooth and responsive gear shifts with single-lever for instant speed and directional changes.

Operator Comfort: Conveniently located armchair steering control for enhanced operator comfort with Hexagonal sound suppressive cabin.

Pilot Operated Hydraulic System : It offers effortless fine control blade through joystick.

Wet multiple disc steering clutches and brakes: Hydraulically inter linked steering clutch and brakes provide excellent maneuverability during gradual and pivot turns.

BEML unique engine speed control mechanism through braking (patent pending) gives better equipment control and helps reduces brake band wear and oil contamination.

Sturdy Construction: Track-roller frames are made of high tensile steel for maximum rigidity

Durable Work Attachment: High tensile steel blades of different configuration available for varying types of working conditions and applications. The attachment is sturdy in construction to withstand adverse ground conditions.

Segmental Sprockets :Bolt-on type segmented sprocket permits quick on site replacement. Special grooved type floating seals and unique dust seals provide extended undercarriage life.

Groove-type Floating Seals: These special seals are used in the idlers, track and carrier rollers to keep dirt out and lubricant in for extended undercarriage life, as well as reduced maintenance cost.

Reduced vibration and noise levels: Radiator, fuel tank, floor frame, Engine and cabin are mounted on anti-vibration rubber cushions to isolate vibration and reduce noise levels.



OPTIONAL FEATURES: Electronic Governed engine is available **Electronic Transmission with Joystick control for Steering and** Transmission is available.



Make	BEML
Model	BS6D170-1 / BS6D170EG (Optional)
Туре	6 inline, Diesel, 4-stroke, water cooled, turbo- charged, direct injection, Mechanical Governed (Electronic Governed as Optional)
Flywheel power	310 kW (416 HP) @ 2000 rpm in accordance with IS:13116 / ISO: 9249
Maximum torque	1780 N-m (181.5 kg-m) @ 1400 rpm
No. of Cylinders	6, inline
Bore & Stroke	⊘170 mm x 170 mm
Displacement	23.15 ℓ (0.02315 m³)
Electrical	
Alternator	24V, 100 A / 140 A
Starter Motor	24V, 9 kW
Battery	2x12V, 200 Ah



Torque Convertor					
	Туре		3 element, single stage single phase		
	Stall R	atio	2.6		
Transmission	Type		4F/4R,Planetary power shift, transmission (Electronically Controlled as Optional)		
Final Drive	Туре		Spur and planetary gear, double reduction		
	Lubrication		Splash type		
	Total reduction		37.0		
Travel Speeds	;	Range	Forward	Reverse	
m/sec (km/h)	_	1st	0-0.92 (0-3.30)	0-0.89 (0-3.20)	
	_	2nd	0-1.42 (0-5.10)	0-1.39 (0-5.00)	
	_	3rd	0-2.36 (0-8.50)	0-2.35 (0-8.47)	
	_	4th	0-3.53 (0-12.7)	0-3.50 (0-12.6)	



Туре	Wet, multiple disc steering clutches are
	hydraulically actuated and require no adjustment
Min. Turning Radius	3.7 m
Steering Control	Hydraulic through linkages (Joystick as optional)

STANDARD EQUIPMENT:

Hydraulic Track Adjusters Air cleaner inner element lock Track roller guard (each side) Decelerator pedal 7 Roller track frame Lower guard (3 pieces) Fixed type draw bar Joystick for work attachment Adequate lighting system Front pull hook In-line radiator Tool kit Audio visual backup alarm Lighting System (including 4 front and 2 rear lights) Safety lock for blade lever Semi-U Blade

Hex. ROPS- FOPS cabin

METERS & GAUGES

Engine oil pressure Engine water temperature Torque convertor oil temperature Engine tacho meter Hour meter Voltmeter Transmission oil pressure Fuel level Engine oil temperature

WARNING INDICATORS

Engine oil filter clog Battery Charging (indicator only) Engine oil pressure Torque convertor oil temperature Engine coolant level Engine coolant temperature Engine oil temperature

Dust Indicator (Mechanical on engine) Seat Belt Indicator Engine Auto shut off for low engine oil

pressure and high water temperature abnormalities.

OPTIONAL ATTACHMENTS / SYSTEMS

Straight Tilt Blade U-Blade Angle Blade Coal Blade Giant Ripper Pin puller equipment (for Giant ripper) Track shoe 710mm Track shoe 760mm AC with Heater & Defroster Pusher plate for straight tilt dozer Scoria Disposal Multi shank Ripper Rake Dozer Fast fill fuel system Warning system for operator's fatigue. Auto Lubrication system Automatic temperature control unit for AC Rear vision system Auto fire detection &

suppression system

HYDRAULIC SYSTEM

Hydraulic pump		Pilot pump	
Туре	Gear pump	Gear pump	
Capacity	419.3 ℓ / min.	24.00 ℓ pm	
Relief pressure	13.73 MPa (140 kg/cm²)	3.0 MPa	
Hydraulic Cylinders			
Туре	Double acting piston type		
Blade Lift	2 cylinders		
Bore x Stroke (mm)	⊘ 160 mm x 1440 mm		
Blade Tilt	1 cylinder		
Bore x Stroke	⊘250 mm x 180 mm		
For optional ripper a	ttachment		
Ripper lift	2 Cylinders		
Bore x Stroke	⊘ 225 mm x 600 mm		
Ripper tilt	2 Cylinders		
Bore x Stroke	⊘ 225 mm x 500 mm		

FILTRATION

Engine	Replaceable cartridge type filter for lubrication as well as for fuel line.
Transmission	One magnetic oil strainer and one replaceable element pressure line filter
Steering & Brake	Magnetic oil strainer is common to transmission, steering & braking system. Separate replaceable element type pressure line filters are provided.
Hydraulic System	Magnetic plug & replaceable element type filter is provided. Pilot filter with cleanable element.

UNDER CARRIAGE

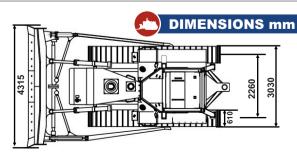
Suspension	Oscillation type equalizer bar
Track Frame	Box section High tensile strength steel
	construction
Track Roller	7 No. Each side
Carrier Rollers	2 No. Each side
Track Shoes	39 No. Each side
Track Pitch	2260 mm
Grouser Height	88 mm
Shoe Width	610mm (standard)
Ground Pressure	83.70 kPa (0.85 kg/cm²) (Tractor)
Ground contact area	4.099 m²
-	

MASS (approximate)

46550 kg Operating mass (Standard equipment with Semi-U dozer) Shipping mass (Basic tractor with lubricants, Hydraulic system, cooling system and 10% of fuel tank capacity) 35000 kg



Туре	Wet, contracting band,		
Control	Foot operated steering brakes with hydraulic booster for light-touch actuation and long service life. Brakes and steering clutches are interconnected for easy steering.		
Parking brake	Hand operated with mechanical linkage.		



DOZER ATTACHMENT

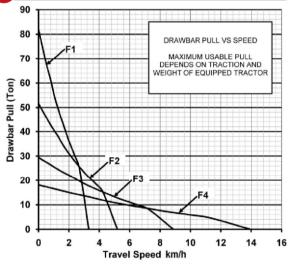
Dozer type	Straight tilt dozer	Angle dozer	Semi-U dozer	U dozer	Coal dozer
Overall length	7120	7215	7163	7600	7760
with dozer (mm)					
Blade length x	4315 x	5230 x	4315 x	4715 x	5530 x
height (mm)	1875	1350	1955	1875	2125
Max. lift above ground (mm)	1545	1640	1545	1545	1565
Max. drop below ground (mm)	700	720	700	700	650
Max. tilt adjustment (mm)	1000	550	1000	1000	*
Additional ground pressure					
kPa (kg/cm²)	20.6	19.6	20.6	23.54	19.62
	(0.21)	(0.20)	(0.21)	(0.24)	(0.20)
Blade Capacity (m ³) 11.6	5.9	13.0	15.6	24.5
Mass in kgs					
Dozer Attachment	7830	7200	8590	8830	7660
Hydraulic Control					
Unit	880	870	880	880	680

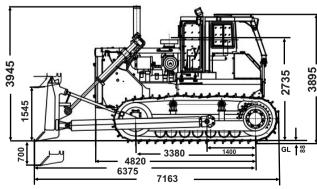
^{*}Tilt Cylinder for coal dozer is optional

COOLANT & LUBRICANTS CAPACITY (Refill)

System	Specific amount(ltr.)	Refill capacity(ltr.)
Cooling System	180	_
Fuel tank	760	_
Engine Lub oil	58	43
Transmission, bevel gear torque converter & steering	230 g	190
Final Drive (each side)	68	68
Hydraulic System	350	185

BD355 DRAWBAR PULL Vs TRAVEL SPEED





Ground Clearance: 570mm

Material and specifications are subject to change without notice, Illustrations may include optional equipment & accessories

बी ई एम एल लिमिटेड **BEML LIMITED**

Schedule 'A' Company under Ministry of Defence, Govt. of India

Business **Network**

Corporate Office

BEML Soudha, 23/1, 4th Main, S.R. Nagar, Bangalore – 560 027

T+918022963240,22963250

F+918022963278/516/280/164

E-mail: office.cpd@beml.co.in corpcomm@beml.co.in International Business Division

Flat No. E,F,G, H, 'Vandana' 11th Floor, 11, Tolstoy Marg, Connaught Place New Delhi - 110 001

T + 91 11 23316500 F + 91 11 23325085

E-mail: mx@beml.co.in

Marketing Division

5th Floor, Unity Building, J.C. Road, Bangalore - 560 002

T + 91 80 22963501/02/07/510/540

F + 91 80 22963541

E-mail: m@beml.co.in mmd@beml.co.in

PECIONAL OFFICES

Bangalore	T -04 07442 54500
4th Floor, Unity Building, J. C. Road, Bangalore - 560 002 Karnataka	T +91 97413 51588 E-mail: mg@beml.co.in
Bilaspur	
1-A, Industrial Area, Sector-C, Sirgitti, Bilaspur - 495 223.	T + 91 7752 252745, 252598 F + 91 7752 252065 E-mail: mv@beml.co.in
Chhattisgarh Neyveli	E-mail: mv@beml.co.in
F-4, Dr. Rajendraprasad Road,	T/F + 91 4142 268517
Block-27, Neyveli,- 607 803 Tamil Nadu	T + 91 4142 265517 / 229392 E-mail: ma@beml.co.in
Dhanbad	L-mail. ma@bemi.co.m
Mouza - Kangalo, Amaghata,	
Govindpur,KG Ashram Post, Dhanbad Jharkhand – 828 109	T + 91 94711 92023 E-mail:mf@beml.co.in
Hyderabad	
3-6-114, Street No.18, Himayat Nagar, Hyderabad - 500 029	T + 91 40 2322 7032 / 94907 93117 F + 91 40 23221794
Telangana	E-mail: rm.hyderabad@beml.co.in
Kolkata	
35/1A, Taratala Road,	T + 91 33 2401 5286 / 87 / 98 / 99
Kolkata - 700 088.	F + 91 33 2401 5288
West Bengal	E-mail: rm.kolkatta@beml.co.in
Mumbai	Z
32A, Bazar Road,	T + 91 22 26431875 / 26435875
Near Jain Mandir, Bandra (West), Mumbai,	F + 91 22 26423928
Maharashtra - 400 050	E-mail: rm.mumbai@beml.co.in
Nagpur No 33, Cement Road, Shivaji Nagar,	T + 91 712 2248435 / 2248343 F + 91 712 2249997
Nagpur - 440 010, Maharashtra.	E-mail: mn@beml.co.in
New Delhi	E-mail. mil@bemi.co.m
Flat E,F,G,H, 'Vandana', 11th Floor, 11, Tolstoy Marg, Connaught Place,	T + 91 11 2344 3511 / 3528 / 2331 6500 F + 91 11 2332 5085
New Delhi - 110 001	E-mail: ml@beml.co.in
Ranchi 206/D-1, Bhagirathi, (Behind NCC Campus)	
Rameshwaram Colony, Bariatu Road, Ranchi, Jharkhand - 834 009	T + 91 651 2540710 / 94311 08531 E-mail: mr@beml.co.in
Sambalpur	
BEML Complex, NH-6, Panchagachhia,	
Baraipalli Post, Sambalpur 768 006	T + 91 663 2521604 / 2521389
Odisha.	E-mail: mb@beml.co.in
Singrauli	- N V
PB No. 5, Jhingurdha Colliery,	T + 91 7805 272668 / 272318
Singrauli - 486 889	F + 91 7805 272282
Madhya Pradesh.	E-mail: rm.singrauli@beml.co.in

ACTIVITY CENTRES

Bhopal Ground Floor, Hall No.1, Chittod Complex, Zone-1, Maharanapratap Nagar (MP Nagar), Bhopal - 462 011	T + 91 755 2550711 / 8989459753
Panjim BEML Limited, 5/4, Victor Building, Fontanhas, Mala, Panjim - 403 001, Goa	T +91 832 2225135 / 77986 87178
Itanagar C/o. Tobom Riba, H-Sector, Papum Itanagar – 791 113, Arunachal Pradesh	T + 91 94029 34205 / 88372 15852
Kochi No. 39/2122, Chittoor Road, Ernakulam South, Kochi – 682 016	T + 91 484 2375138 E-mail: rm.kochi@beml.co.in
Maihar Maihar, Madhya Pradesh	Mob: +91 79875 53768
Silapathar: Surya Vatika, Amritpur, Silapathar, Assam - 787 059	T +91 95311 29059

DISTRICT OFFICES

Ahmedabad	
99/100, BEML HOUSE, 2nd Street,	T + 91 79 26445523 / 94264 13620
Azad Society, Ambawadi,	F + 91 79 26423950
Ahmedabad - 380 015, Gujarat	E-mail: rm.ahmedabad@beml.co.in
3, Burnpur Road,	T + 91 341 2252480
Asansol - 713 304	F + 91 341 2250601
West Bengal	E-mail: mca@beml.co.in
Bacheli	L-mail. mca@bemi.co.iii
Behind Central Stores of NMDC Ltd.,	T/F + 91 7857 230005
Depot 5, Bacheli - 494 553.	E-mail: rm.bacheli@beml.co.in
Chhattisgarh	
Bhilai	T + 91 788 2223880
Room no 22/C, BSP Expansion Building,	F + 91 788 2221652
Near Ispat Bhavan, Bhilai 490 001, Chhattisgarh	E-mail: mnb@beml.co.in
Bhubaneswar	AND THE SECRET STORY AND ADMINISTRATION OF THE SECRET STORY
252/A, Lewis Road	T + 91 674 2434427 / 99373 83950
Bhubaneswar - 751 014	
Odisha	E-mail: mbb@beml.co.in
Chandrapur	T : 04 7470 007000
Mamidwar, Tiles Factory Compound	T + 91 7172 287230
Ghugus Road, Padoli	F + 91 7172 287560
Chandrapur - 442 406 Maharashtra	E-mail: mnc@beml.co.in
Chennai Flat No. 10, Supriya Estates,	T + 91 44 28220844
No.3, Sterling Road, Nungambakkam,	F + 91 44 28257319
Chennai - 600 034, Tamil Nadu,	E-mail: rm.chennai@beml.co.in
Guwahati	L-mail. m.chemiai@bemi.co.iii
No.11, Ward 43, Hengrabari Road,	T + 91 361 2232966
Ganesh Puri, Dispur,	F + 91 361 2232967
Guwahati - 781 006 Assam	E-mail: rm.guwahati@beml.co.in
Hospet	
No.1431, Manjunatha Complex,	T/F + 91 8394 230172
Bhagat Singh Nagar, Opp. KSSIDC Indl. Estate,	
Dam Road, Hospet - 583 203, Karnataka	E-mail: rm.hospet@beml.co.in
Jammu	T . 04 404 0450 407
62C, Block D/C, Gandhi Nagar,	T + 91 191 2459 437
Jammu tawi - 180 004	F + 91 191 2430 447
Jammu and Kashmir	E-mail: mlj@beml.co.in
Kothagudem	T + 91 8744 245572
Old Project Planning Department, Near SCCL Corporate Office,	F + 91 8744 245572
Kothagudem - 507 101, Telangana	
Leh	E-mail: rm.kothagudem@beml.co.in
174-B, (Near Royal Enfield Showroom),	T + 91 1982 258828 / 94198 71008
Housing Colony, Leh, Ladakh -194 101	E-mail: mll@beml.co.in
Ramagundam	2 man rinnegoomioonii
Near SCCL TTC, Jawahar Nagar,	
Behind CISF Camp, Godavarikhani - 505 209.	T + 91 8728 248299 / 94408 58441
Peddapalli Dist.,Telangana	E-mail: mhr@beml.co.in
Udaipur	
20-B,Uchhab Bhavan, Bedla Road,	
Fatehpura, Udaipur - 313 001.	T + 91 294 2452054
Rajasthan	E-mail: mwu@beml.co.in
Visakhapatnam	T/F +91 891 2754608 / 83320 54590
No. 8-45-11, 4th Lane,	E-mail:rm.vizag@beml.co.in
Vidyanagar Chinna Waltair Colony	
Visakhapatnam - 530 003, Andhra Pradesh	

www.bemlindia.in

बी ई एम एल लिमिटेड BEML LIMITED