



Salient Features:

- Turbo charged BEML BS6D170-1 Engine
- Power Shift Transmission
- Sturdy construction of Track frames & Mainframe
- 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
- Reduced vibration and noise levels
- Hexagonal ROPS-FOPS Cabin for better visibility



BD155

Flywheel Power (FHP) : 242 kW (324 HP) @ 2000 rpm

Operating Mass : 39,105 kg

(With Straight tilt Dozer)

BD155

CRAWLER DOZER

Salient Features:

BEML BS6D170-1 Engine: Engine is environment friendly as it ensures low level of vibration, noise and smoke.

Power Shift Transmission: Smooth and responsive gear shift with single-lever control for instant speed and directional

Operator Comfort: Conveniently located armchair steering control for enhancement 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 configurations 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.

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

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.



OPTIONAL FEATURES:

Electronic Governed engine is available. Electronic transmission with joystick control for Steering and Transmission is available.



Make & Model	BEML BS6D 170	BEML BS6D 170-1 / BS6D170EG(optional)	
Туре	6 inline Diesel,	4 stroke, water cooled, turbo-	
	charged, direct in	jection, Mechanical Governed	
	(Electronic Gove	rned as optional)	
Flywheel Power	242 kW (324 hp)	@ 2000 rpm in accordance	
	with IS:13116 / IS	SO:9249	
Max. Torque	1456N-m (148.5	1456N-m (148.5 kg-m) at 1400 rpm	
No. of cylinders	6, inline		
Bore x Stroke	∅ 170 x 170 mm		
Displacement	23.15 \((0.02315m ³)		
Electrical	Alternator 24 V, 100A / 140A		
	Starting Motor	24 V / 9 kW	
	Battery	2x12 V, 200 Ah / 160 Ah	
	-		



Torque Convertor	Stall Ratio	2.4
	Type	3 element, single stage single
		phase
Transmission	Type	3F/3R,Planetary powershift
		transmission (Electronically
		controlled as optional.)



FINAL DRIVE

Туре	Spur gear o	Spur gear double reduction		
Lubrication	Splash type)		
Total reduction	40.104			
Travel Speeds	Range	Forward	Reverse	
m/sec (km/h)	1st	0-1.03 (0-3.70)	0-1.25 (0-4.50)	
	2nd	0-1.89 (0-6.80)	0-2.30 (0-8.20)	
	3rd	0-3.28 (0-11.8)	0-3.81 (0-13.7)	



HYDRAULIC SYSTEM

HYDRAULIC	PUMP	
Туре	G	ear pump
Capacity	3	35 ℓpm
Relief Press	ure 1	3.73 MPa (140 kg/cm²)
HYDRAULIC CYLINDERS		
Type Do	ouble acting p	iston type
Blade Lift	2 cylinders	
Blade Tilt	1 cylinder (n) Ø 225 mm x 160 mm (Bore x stroke)
	(0	ut) Ø 225 mm x 500 mm (Bore x stroke)

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 **Toolkit** Audio visual backup alarm Lighting system (including 4 front and 1 rear lights) Safety lock for blade lever Straight Tilt Blade Hex. ROPS-FOPS cabin

METERS AND GAUGES

Engine Oil Pressure **Engine Water Temperature** Torque converter oil temperature Engine tacho meter, hour meter Volt meter Transmission Oil Pressure Fuel Level Engine oil temperature

WARNING INDICATORS Engine Oil filter Clog

Battery Charging (indicator only) Engine oil pressure Torque converter 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

Semi-U Blade U Blade Angle Blade Coal Blade Giant Ripper Pin-puller equipment (for Giant ripper) Track shoe of 610mm Track shoe of 660mm Rear vision system

Pusher plate for straight tilt dozer Scoria Disposal Multi Shank Ripper Rake dozer Auto Lubrication System Fast fill fuel System Warning System for Operator's Fatigue. Automatic temperature control unit for AC Auto fire detection & suppression system AC with Heater & Defroster



Туре	Wet, Multiple disc hydraulically actuated and require no adjustment
Min turning radius	3.8 m
Steering Control	Hydraulic through linkages (Joy stick as optional)



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Suspension	Oscillation type equalizer bar
Track frame	Box section High tensile strength steel construction
Track Pitch	2140 mm
Track Roller	7 No. Each side
Carrier Rollers	2 No. Each side
Track Shoes	41 No. Each side
Grouser Height	80 mm
Shoe type	Single Grouser
Shoe Width	560mm
Ground Pressure	84.13kPa (0.86kg/cm²) - Bare Tractor
Ground contact area	3.528m²



Engine	Double element dry type with pre-cleaner & automatic dust ejector for intake air. Cartridge type filter for oil & fuel.
Transmission	Magnetic oil strainer and pressure line filters.
Steering & brake	Magnetic oil strainer and pressure line filters.
Hydraulic System	Magnetic iron particles separator & return line filters. Pilot filter with cleanable element.



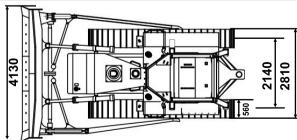
Operating Mass	39105kg
(Standard equipment with straight tilt dozer)	
Shinning Mass	30525kg

(Basic tractor with lubricants, Hydraulic system, cooling system and 10% of fuel tank capacity)



DOZER ATTACHMENT

Dozer type	Straight	Angle	Semi-U	U	Coal
Overall length with Dozer	6555	6630	6560	6970	7015
Blade Length x	4130x	4850x	4130x	4225x	5260x
Height	1590	1140	1790	1590	1795
Max. Lift above ground	1560	1475	1560	1560	1625
Max. Drop Below ground	560	625	560	560	545
Max. Tilt Adjust	1000	400	1000	1020	-
Blade Capacity (Cum)	7.9	4.2	9.7	10.1	17.4
Addl. Gr. Pressure Kpa	18.15	15.20	18.54	20.11	17.66
(Kg/cm	²) (0.185)	(0.155)	(0.189)	(0.205)	(0.180)
Mass (kg) Dozer Eqpt.	5740	4800	5930	6480	5730
Mass (kg) Hyd.Control uni	t 760	700	760	760	770



Ground Clearance: 500mm

SYSTEM FLUID CAPACITY

System	Specific amount (ltr.)	Refill capacity(ltr.)
Cooling System	165	
Fuel tank	590	
Engine Oil Pan	58	43
Transmission, Bevel Gea		405
Torque Converter & Stee	ering 185	135
Final Drive (each side)	55	55
Hydraulic oil	295	185



Туре	Wet, Contracting band	
Actuation Type	Foot operated Mechanical linkage assited by hydraulic booster for light touch and easy actuation. Brakes and steering clutches are hydraulically interconnected for easy steering	
Parking Brake	Hand operated with mechanical linkage	



Hexagonal shaped, ergonomically designed ROPS-FOPS cabin provides excellent visibility and operator comfort.

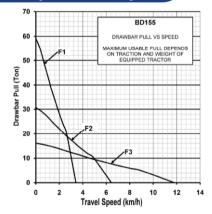


INSTRUMENTATION

LCS based centralized monitority system within the operator's cabin has in-built diagnostics which allow fast daily checks and also keeps the operator constantly informed of any abnormality during operation. All important equipment parameters and warning indicators are displayed in the LCS display unit. The display unit is suitable for day and night visibility.

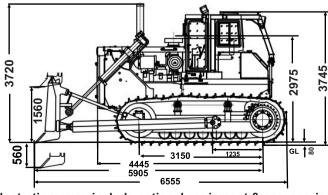


Drawbar pull Travel Speed



TRAVEL SPEED





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	7 . 0.1 07/10 51500
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. Chhattisgarh	T + 91 7752 252745, 252598 F + 91 7752 252065 E-mail: mv@beml.co.in
Nevveli	E-mail: mv@bemil.co.in
F-4, Dr. Rajendraprasad Road, Block-27, Neyveli,- 607 803	T/F + 91 4142 268517 T + 91 4142 265517 / 229392
Tamil Nadu	E-mail: ma@beml.co.in
Dhanbad	L-mail. ma@bemi.co.m
Mouza - Kangalo, Amaghata,	
Govindpur.KG Ashram Post, Dhanbad	T + 91 94711 92023
Jharkhand – 828 109	E-mail:mf@beml.co.in
Hyderabad	
3-6-114, Street No.18, Himayat Nagar,	T + 91 40 2322 7032 / 94907 93117
Hyderabad - 500 029	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	
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
No 33, Cement Road,	T + 91 712 2248435 / 2248343
Shivaji Nagar,	F + 91 712 2249997
Nagpur - 440 010, Maharashtra.	E-mail: mn@beml.co.in
New Delhi Flat E,F,G,H, 'Vandana', 11th Floor,	T + 91 11 2344 3511 / 3528 / 2331 6500
11, Tolstoy Marg, Connaught Place,	F + 91 11 2332 5085
New Delhi - 110 001	E-mail: ml@beml.co.in
Ranchi	E-mail: mil@berni.co.iii
206/D-1, Bhagirathi, (Behind NCC Campus)	
Rameshwaram Colony, Bariatu Road,	T + 91 651 2540710 / 94311 08531
Ranchi, Jharkhand - 834 009	E-mail: mr@beml.co.in
Sambalpur	2 7
BEML Complex, NH-6, Panchagachhia,	
Baraipalli Post, Sambalpur 768 006	T + 91 663 2521604 / 2521389
Odisha.	E-mail: mb@beml.co.in
Singrauli	5 }
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
1	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	
	252/A, Lewis Road	T + 91 674 2434427 / 99373 83950
	Bhubaneswar - 751 014	
	Odisha	E-mail: mbb@beml.co.in
	Chandrapur	
	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	T . 04 44 00000044
	Flat No. 10, Supriya Estates,	T + 91 44 28220844
	No.3, Sterling Road, Nungambakkam, Chennai - 600 034, Tamil Nadu,	F + 91 44 28257319 E-mail: rm.chennai@beml.co.in
	Guwahati	E-mail: rm.cnennal@beml.co.in
	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	L mail migawanaa@pomiloo.iii
	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	
	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	
	Old Project Planning Department,	T + 91 8744 245572
	Near SCCL Corporate Office,	F + 91 8744 245530
	Kothagudem - 507 101, Telangana	E-mail: rm.kothagudem@beml.co.in
	Leh 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	E-mail . mili@bemi.co.in
	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	L-mail. mini@benil.co.iii
	20-B,Uchhab Bhavan, Bedla Road,	
	Fatehpura, Udaipur - 313 001.	T + 91 294 2452054
	Raiasthan	E-mail: mwu@beml.co.in
	Visakhapatnam	T/F +91 891 2754608 / 83320 54590
1	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