

BL30-1

WHEEL LOADER



Salient Features :

- CEV stage-IV emission compliant engine
- Orbitrol hydraulic power steering
- Load sensing hydraulics with Joystick control
- Power shift transmission with single lever control
- Integral ROPS & FOPS cabin



Operating Mass : 18000 kg

Gross Power : 165 kW @ 2300 rpm

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WHEEL LOADER

Salient Features :

PRODUCTIVITY

Powerful Ashok Leyland H6 series CEV stage-IV engine, rugged transmission, featuring 4 forward and 3 reverse speeds. Heavy duty planetary axle with high tractive effort and gradeability in all operating conditions.

Load sensing type joystick controlled hydraulic system for work attachment operations.

RELIABILITY

Wet multiple disc brake for front and rear axle, box type chassis construction for uniform stress distribution.

Z bar linkage assures optimum breakout force and faster cycle time.

MANEUVERABILITY

Maneuverability : Articulation with power steering, optimum combination of travel speed and hydraulic cycle time, turning circle and wheel base.

SERVICEABILITY & MAINTAINABILITY

7" Electronic display and monitoring system helps in better trouble shooting. Loader linkage pins with dust seals account for less maintenance.

COMFORT

Integral ROPS & FOPS cabin, with ergonomically arranged feather touch control levers and instruments, cushioned and adjustable suspension seat. Excellent visibility assures easy loading and unloading of material.

Steering column mounted single lever electronic control for direction and speed of power shift transmission.



ENGINE

Make / Model	Ashok Leyland / H6 series CEV stage-IV
Type	Turbo charged 6 cylinder, Inter cooled Engine
Gross Power	165 kW @ 2300 rpm
Displacement	5.7ℓ / 5700 cc
Maximum torque	800 Nm (81.5 kgm) @ 1700 - 1800 rpm
Governor	Electronically controlled
Lubrication	Forced
Air Cleaner	Dry type
Electricals	2-12V, Dual Battery, Alternator 24V, 55A



TRANSMISSION

Transmission	Full power shift with integral torque converter, 4 forward and 3 reverse speeds, optimally matched with engine power Electro hydraulic controlled direction and range selector
Max. Speed	37 kmph



AXLES & FINAL DRIVE

Drive System	All Wheel Drive
Front axle	Limited slip differential, Rigid mount
Rear axle	Limited slip differential, Trunnion mount



BRAKES

Service brake	Hydraulically operated wet multiple disc brake
Secondary Brake	Actuated through accumulator
Parking Brake	Electro hydraulic actuated, SAHR type



TYRES

Front & Rear	23.5-25 20PR - 4 nos
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STEERING

Steering Mechanism	Fully Hydrostatic power steering Independent of engine speed
Relief Pressure settings	220 +/- 10 bar



REFILL CAPACITY (Litres)

Hydraulic	130	Engine Oil	20
Fuel tank	300	Transmission	21
Engine coolant	40	Rear Axle	35
Front axle	35		



FILTER SYSTEM

Engine	Two stage fuel filter with water separator
Air intake	Dry type, two stage air cleaner with dust evacuator
Hydraulic	Return line filter

STANDARD EQUIPMENT

- 24V Starting motor
- 55A Alternator
- 24V /150 AH battery
- Integral ROPS & FOPS cabin
- Front Light
- Electric Horn
- Rear view mirror
- Tool kit

OPTIONAL ATTACHMENTS

- Cold Starting kit to meet High altitude and extreme cold environmental conditions
- Boom kick out and Bucket positioner
- Auto fire detection and suppression system
- Axle with open differential and dry disc brake
- Cabin interiors with ABS panels
- Auto lubrication system
- Rear view camera
- Seat belt warning
- FOPS cabin
- Air Conditioner





HYDRAULICS

Main Pump	Variable piston pump	
Capacity	240 lpm @ 2300 rpm	
Relief pressure	230 kg/cm ² (23 MPa)	
Hydraulic cylinder	Qty	Bore x Stroke
Lift cylinder	2	∅ 140 - 769
Dump cylinder	1	∅ 200 - 485
Steering cylinder	2	∅ 90 - 442
Controls :		
Controls through hyd joystick pilot operated		
Pilot pressure :	30 bar	



CABIN CONTROL PANEL

Integral ROPS & FOPS Cabin with excellent visibility, fitted with 2 doors & 2 side windows. Cabin is cushion mounted to reduce vibration and sound levels.

Ergonomically located controls for easy operation



BUCKET CAPACITY

Sl No.	Density of the Material Handled (kg/m ³)	Bucket (m ³)
1.	1600	3.4
2.	1800	3.1 (std)
3.	2000	2.7
4.	2200	2.5
5.	2700	2.0



MASS (kg)

Operating Mass	18000 kg (including work attachments, coolant, fuel tank and operator)
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TURNING CIRCLE DIA

Outside Loader Bucket	14.05m
Outside wheels	13.50 m



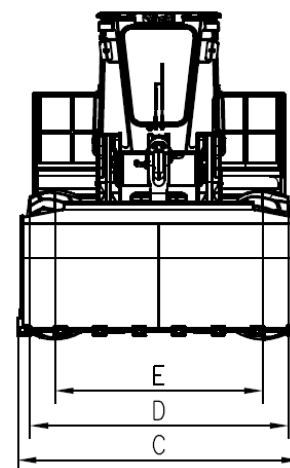
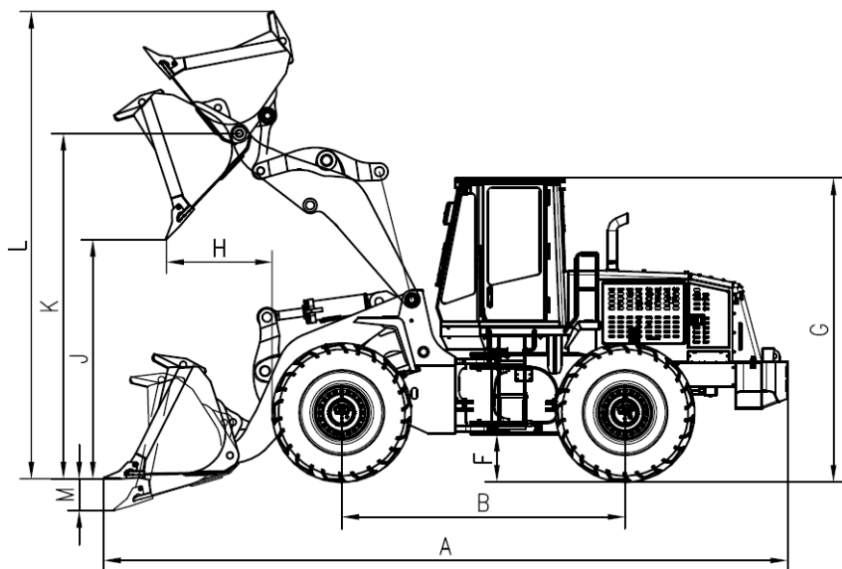
LOADER PERFORMANCE

Bucket capacity (SAE rated) General Purpose	3.1 cu.m
Max. Dumping Height	2782 mm (Tooth Point)
Operating height (fully raised)	5430 mm
Max. Digging depth	385mm
Bucket dumping angle	45°
Maximum Break out Force	198 kN
Articulation	38° ± 2°



DIMENSIONS (in mm)

A	Overall length	8000 mm
B	Wheel base	3300 mm
C	Bucket Width	3086 mm
D	Width over tires	2847 mm
E	Wheel tread	2173 mm
F	Ground clearance	470 mm
G	Overall height	3458 mm
H	Dump Reach @ 45°(Cutting edge)	1061 mm
	Dump Reach @ 45°(tooth point)	1204 mm
J	Dump Height @ 45°(Cutting edge)	3000 mm
	Dump Height @ 45°(tooth point)	2782 mm
K	Max. height of Hinge pin	4011 mm
L	Operating height (fully raised)	5492 mm
M	Max Digging depth	385 mm



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 + 91 80 22963240, 22963250

F + 91 80 22963278/516/280/164

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

REGIONAL OFFICES

Bangalore

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

Neyveli

F-4, Dr. Rajendraprasad Road,
Block-27, Neyveli,- 607 803
Tamil Nadu

T/F + 91 4142 268517
T + 91 4142 265517 / 229392
E-mail: ma@beml.co.in

Dhanbad

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
Telangana

T + 91 40 2322 7032 / 94907 93117
F + 91 40 23221794
E-mail: rm.hyderabad@beml.co.in

Kolkata

35/1A, Taratala Road,
Kolkata - 700 088.
West Bengal

T + 91 33 2401 5286 / 87 / 98 / 99
F + 91 33 2401 5288
E-mail: rm.kolkata@beml.co.in

Mumbai

32A, Bazar Road,
Near Jain Mandir, Bandra (West), Mumbai,
Maharashtra - 400 050

T + 91 22 26431875 / 26435875
F + 91 22 26423928
E-mail: rm.mumbai@beml.co.in

Nagpur

No 33, Cement Road,
Shivaji Nagar,
Nagpur - 440 010, Maharashtra.

T + 91 712 2248435 / 2248343
F + 91 712 2249997
E-mail: mn@beml.co.in

New Delhi

Flat E,F,G,H, 'Vandana', 11th Floor,
11, Tolstoy Marg, Connaught Place,
New Delhi - 110 001

T + 91 11 2344 3511 / 3528 / 2331 6500
F + 91 11 2332 5085
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
Odisha.

T + 91 663 2521604 / 2521389
E-mail: mb@beml.co.in

Singrauli

PB No. 5, Jhingurdha Colliery,
Singrauli - 486 889
Madhya Pradesh.

T + 91 7805 272668 / 272318
F + 91 7805 272282
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,
Azad Society, Ambawadi,
Ahmedabad - 380 015, Gujarat

T + 91 79 26445523 / 94264 13620
F + 91 79 26423950
E-mail: rm.ahmedabad@beml.co.in

Asansol

3, Burnpur Road,
Asansol - 713 304
West Bengal

T + 91 341 2252480
F + 91 341 2250601
E-mail: mca@beml.co.in

Bacheli

Behind Central Stores of NMDC Ltd.,
Depot 5, Bacheli - 494 553.
Chhattisgarh

T/F + 91 7857 230005
E-mail: rm.bacheli@beml.co.in

Bhilai

Room no 22/C, BSP Expansion Building,
Near Ispat Bhavan, Bhilai 490 001, Chhattisgarh

T + 91 788 2223880
F + 91 788 2221652
E-mail: mnb@beml.co.in

Bhubaneswar

252/A, Lewis Road
Bhubaneswar - 751 014
Odisha

T + 91 674 2434427 / 99373 83950
E-mail: mbb@beml.co.in

Chandrapur

Mamidwar, Tiles Factory Compound
Ghugus Road, Padoli
Chandrapur - 442 406 Maharashtra

T + 91 7172 287230
F + 91 7172 287560
E-mail: mnc@beml.co.in

Chennai

Flat No. 10, Supriya Estates,
No.3, Sterling Road, Nungambakkam,
Chennai - 600 034, Tamil Nadu,

T + 91 44 28220844
F + 91 44 28257319
E-mail: rm.chennai@beml.co.in

Guwahati

No.11, Ward 43, Hengrabari Road,
Ganesh Puri, Dispur,
Guwahati - 781 006 Assam

T + 91 361 2232966
F + 91 361 2232967
E-mail: rm.guwahati@beml.co.in

Hospet

No.1431, Manjunatha Complex,
Bhagat Singh Nagar, Opp. KSSIDC Indl. Estate,
Dam Road, Hospet - 583 203, Karnataka

T/F + 91 8394 230172
E-mail: rm.hospet@beml.co.in

Jammu

62C, Block D/C, Gandhi Nagar,
Jammu tawi - 180 004
Jammu and Kashmir

T + 91 191 2459 437
F + 91 191 2430 447
E-mail: mlj@beml.co.in

Kothagudem

Old Project Planning Department,
Near SCCL Corporate Office,
Kothagudem - 507 101, Telangana

T + 91 8744 245572
F + 91 8744 245530
E-mail: rm.kothagudem@beml.co.in

Leh

174-B, (Near Royal Enfield Showroom),
Housing Colony, Leh, Ladakh -194 101

T + 91 1982 258828 / 94198 71008
E-mail : ml@beml.co.in

Ramagundam

Near SCCL TTC, Jawahar Nagar,
Behind CISF Camp, Godavarikhani - 505 209.
Peddapalli Dist.,Telangana

T + 91 8728 248299 / 94408 58441
E-mail: mhr@beml.co.in

Udaipur

20-B, Uchhab Bhavan, Bedla Road,
Fatehpura, Udaipur - 313 001.
Rajasthan

T + 91 294 2452054
E-mail: mwu@beml.co.in

Visakhapatnam

No. 8-45-11, 4th Lane,
Vidyanagar Chinna Waltair Colony
Visakhapatnam - 530 003, Andhra Pradesh

T/F + 91 891 2754608 / 83320 54590
E-mail : rm.vizag@beml.co.in

www.bemlindia.in

Represented by:

बी ई एम एल लिमिटेड BEML LIMITED

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

Loader From BEML :

BL200-1

BL30-1

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