

BH35-2

REAR DUMP TRUCK



- | Top Performance
- | Enhanced Productivity
- | Increased Reliability
- | Excellent Serviceability
- | Exceptional Manoeuvrability
- | Superior Operating Comfort
- | Improved Safety



Max. Payload	: 31,752 kg
Capacity (heaped) SAE / ISO 2:1	: 22.5 m ³
Flywheel power (net)	: 280 kW (375 hp) @ 2100 rpm

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BH35-2 REAR DUMP TRUCK

Salient Features :

The Robust Truck

Top Performance :

High power engine, rugged AVTEC CLT 754 transmission with automatic lock - up clutch and heavy duty planetary axle provide optimum combination of speed and tractive effort.

Enhanced Productivity :

High power to weight ratio gives ample reserve power for faster cycle time. Wide target area, large volumetric body & low loading height ensures high productivity.

Increased Reliability :

Adjustment-free wet multiple disc brakes for rear axle and dry caliper disc brakes for front axle offer longer life.

Excellent Serviceability :

Low maintainability and repairability index, evaluated through SAEJ817A, compared to any other dumper in its class.

Exceptional Manoeuvrability :

Orbitrol full time Power steering with a good combination of steering angle, shorter turning radius, wheel tread and wheel base provide high degree of manoeuvrability.

Superior Operating Comfort :

Human-engineered cabin with ergonomically designed operator's compartment & controls offer maximum comfort and operational ease.

Improved Safety :

Features include Integral ROPS cabin, emergency steering, dual braking system to meet relevant safety standards.



ENGINE

Make	BEML
Type	BS6D140-1
	IC-Diesel, 4-stroke turbo charged, direct injection, water cooled.
Number of cylinders	6, inline
Bore & Stroke (mm)	ø 140 x 165 mm
Displacement	15.2 l
Fly wheel power	280 kW (375 hp) @ 2100 rpm
Maximum net torque	1627 N-m (166 kgm) @ 1400 rpm

Meets SAE J 1349

Electricals	
Starting motor	24V DC, 7.5 kW
Battery	2 x 12V, 200 Ah
Alternator	24V, 80 /100A



POWER TRAIN

Transmission					
Model	AVTEC CLT 754				
Type	Power shift with automatic Lock up clutch				
Drive axle	Full floating				
Differential					
Type	Traction sensing, automatic				
Ratio	3.23 : 1				
Final Drive					
Type	Planetary reduction type				
Ratio	4.58 : 1				
Total reduction	14.787 : 1				
Travel speeds (km/h)					
Range	1st	2nd	3rd	4th	5th
Forward	7.74	12.57	19.85	29.06	40.11
Reverse	3.94				



HYDRAULIC SYSTEM

Hydraulic pump	
Type	One no. tandem gear pump for hoist, steering and brake oil cooling
Capacity	213 l/min @ 2100 rpm (Hoist & Steering) 70 l/min @ 2100 rpm (Brake oil cooler)
Relief pressure	
Hoist	17.2 MPa (175 kg/cm ²)
Brake oil cooler	0.54 MPa (5.5 kg/cm ²)
Hoist cylinders	Twin, 3-stage, double acting, telescopic type
Body hoist time	16 ± 1.5 sec.

STANDARD EQUIPMENT

GENERAL : ROPS cabin, Electronic Diagnostic system, Vandalism Protection Cap(Fuel tank), Head and taillights, Airhorn, Turn signal lights, Alternator, Electric starter, Key-switch, Wiper motor, Manual emergency steering, Windshield washer, Dump brake, Right & Left Hand mirror, Portable fire extinguisher, Tool kit, Parking brake valve, Tiltable steering wheel and column, Exhaust heated body, Central warning lamp & buzzer, Battery relay, Backup Alarm with flasher, Catwalk, Mudflaps, Body lock pins, Rocker ejectors, Cabin floor mat, Safety seat belt, Co-operator seat, Battery, Front brake cut-off switch, Emergency brake, Engine shut-off switch, Cabin fan, Fog lights, Dia guage on fuel tank, Auto retarder, Blind spot mirror & steering locking, Reflective stickers on all sides.

GUGES : Ammeter, Voltmeter, Air pressure, Engien oil pressure, Water temperature, Transmission oil temperature & pressure, Brake oil temperature, Air cleaner restriction, Speedometer, Tacho-meter, Electrical hour meter, Fuel level.

INDICATORS : Hi-beam, Reverse, Turn signal, Body-up, Lube oil pressure, Water temperature, Parking brake and emergency steering "ON", Alternator warning, Transmission Oil temperature and pressure, Fuel level, Transmission filter clogging, Air pressure and hydraulic oil temperature.

ALARMS : Air pressure, Water temperature, Transmission oil temperature & pressure, Lube oil pressure, Hydraulic oil temperature, Transmission filter clogging, Body-up and parking brake "ON", Low fuel level.

OPTIONAL ACCESSORIES

Tyre inflation kit, Suspension charging kit, Auto emergency steering, Air conditioner and Heater unit, exhaust muffler (Non exhaust heated body), Fast fill system for fuel, Automatic centralised lubrication system, Parking brake interlock, Radial tyres, Auto fire suppression system, Body wear bars, Coal body.

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 2322 1794
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, Emakulam 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, Bumpur 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, Hengrabani 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 : mll@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: mww@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