



MINING & CONSTRUCTION PRODUCT GUIDE



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NEW FRONTIERS. NEW DREAMS

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BEML LIMITED

BEML LIMITED is a leading manufacturer of mining & construction equipment in Asia serving core sector of economy for the past five decades.

The company has pioneered new technologies and introduced new products in the market. The other two vertical business of BEML are (a) Defence & Aerospace Business and (b) Rail & Metro Business.

BEML Limited offers a comprehensive and diverse range of mining & construction equipment for both opencast and underground mines. BEML produces equipment such as Walking Dragline, Electric Rope Shovels, Hydraulic Excavators, Bulldozers, Wheel Loaders, Wheel Dozers, Dump Trucks, Motor Graders, Pipe Layers, Tyre Handler and Water Sprinklers. Besides, BEML has ventured into underground mining with products such as Side Discharge Loader, Load Haul Dumper, Granby Car, Diesel Mine Cruiser and Battery operated Loco.

Its nationwide network of service centres, parts depots ensures total customer satisfaction. Maintenance and Repair Contract (MARC), Annual Maintenance Contract (AMC), GPCC, as per customer needs ensures Equipment availability.

With the opening up of private sector for mining in a big way BEML is gearing up towards consolidating its leadership position in the mining & construction equipment industry. BEML is making continuous efforts in expanding its global market reach and widening the market network through its dedicated International Business Division (IBD). BEML is focussing to enhance its export business in all the 3 business verticals mainly Mining & Construction, Defence & Aerospace, Rail & Metro, with special focus on Africa, Asean, Middle East, SAARC and other neighbouring Countries.

Commensurate with Govt. policy of *"Make in India"*, BEML has indigenously designed and manufactured BH150E (136 Metric Tonne) & BH205E (186 Metric Tonne) Electric Rear Dump Trucks, BE1800E (180 Ton class) Electric Hydraulic Excavator, BE1800D (180 Ton class) Hydraulic Excavator and BD475 (850 HP class) Crawler Dozer.



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



MINING EQUIPMENT

REAR DUMP TRUCKS

SALIENT FEATURES

Performance: High Power BEML / Cummins engine, rugged transmission with automatic lock-up clutch and heavy-duty planetary axle provide optimum combination of speed and tractive efforts. BEML Rear Dump Trucks are provided with ABS (Anti lock Braking System) and ASR (Automatic Spin Regulator system). For 60 UST and 100 UST Rear Dump Truck it is standard. For 35 UST Rear Dump Truck is fitted with traction sensing differential as a standard feature. BEML Rear Dump Trucks are fitted with In-Board Parking brake part of Rear Axle from 60 UST to 100 UST. BEML launched 150 UST and 205 UST Rear Dump Trucks with Electrical drive system which are designed and developed with in-house R&D efforts.

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 calliper disc brakes for front axle offer longer life.

Serviceability: Low maintainability and repair-ability index, evaluated through SAE J 817A, compared to any other dumper in its class.

Manoeuvrability: Orbitrol Power steering with a good combination of steering, 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 operational ease.

Safety: Features include integral ROPS/FOPS cabin, emergency steering, dual brake system to meet relevant safety standards.

STANDARD ACCESSORIES

General: Integral ROPS/FOPS cabin, electronic dashboard system, vandalism protection cap (fuel tank), head and tail lights, horn, turn signal lights, alternator, electric starter, key switch, wiper motor, engine shut-off switch, manual emergency steering, wind shield washer, rear view mirror, portable fire extinguisher, tool kit, parking brake valve, tiltable steering wheel and column, central warning lamps & buzzer, battery cut-off-switch, dump brakes, backup alarm, catwalk, mud flaps, body lock rope, and ejectors, cabin floor mat, safety seat belt, co-operator seat, front brake cut off switch and emergency brake, centralised lubrication system, exhaust heater body, twin fresh air fan.

Gauges: ammeter, voltmeter, air pressure, engine oil pressure, water temperature, transmission oil temperature & pressure, brake oil temperature, air cleaner restriction, speedometer, tachometer, electrical hour meter and fuel level.

Guards: engine belly guard, cab spill guard, drive line protector, rock guard, radiator fan guard (meets ISO 3457 requirement).

Indicators: Hi-beam, reverse, turn signal, body up, lube oil pressure, water temperature, parking brake and emergency steering "on", alternator warning, transmission temperature & pressure, fuel level, air pressure & hydraulic oil temperature.

Alarms: Air pressure, water temperature, 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 muffler, fast fill system for fuel, cold starting kit (aps), fog lights & radial tyres.



Max. Payload :	186 MT (205 U.S. Ton)	Operating Mass :	342500kg
Body capacity :	111 m ³	Fly wheel Power:	2300hp(1716kW)@1900rpm
Overall Dimension (LxBxH)mm: 13636 x 8260 x 6672			

ENGINE	CUMMINS QSK60C (TIER II/TIER I COMPLIANCE)		
	Diesel 4 stroke, Turbo-charged, After Cooled Direct injection, Water Cooled		
	Displacement: 60ltrs, Max. Torque : 9055Nm@1500rpm		
ELECTRIC DRIVE	GE MAKE 5GTA41, AC Current Alternator		
TRAVEL SPEEDS (km/h)	65.0 Max.		
SUSPENSION	Front-Rear	Hydro-Pneumatic	
HYDRAULIC SYSTEM	Hoist time	22± 2 sec	
BRAKES	Front	Caliper on a 46" O.D. single disc per wheel	
	Rear	25"/635mm dual disc-2 caliper/disc.	
	Parking	Spring applied, hydraulically released	

WORKING DIMENSIONS	Loading height	Full Dump Height		Tyre
	5.613 m	12.906 m		40R57 (STD)
VOLUMETRIC	Min turn radius	Heaped	Struck	Fuel(l)
	14±0.25 m	111 m ³	77 m ³	3550
FRAME	Box type section made of high tensile strength alloy steel with integral front bumper and rail, beams are with variable section. Steel casting's at critical stress transition zones.			



BH150E



Max. Payload :	1,36,000kg	Operating Mass:	240,000 Kg
Body capacity :	82cum	Fly wheel Power:	1875hp(1398kW)@1900rpm
Overall Dimension (LxBxH)mm:	12155 x 7707 x 6526		

ENGINE	CUMMINS		QSK50C-EPA (Tier II Compliant)	
	IC-Diesel 4 stroke turbocharged, After cooled, Direct injection, Electric Engine			
	Displacement: 50.3 ltrs		Max. Torque : 7871Nm@1500 rpm	
DRIVE SYSTEM	5GTA22 AC Drive Alternator 5GEB23 Wheel Motors			
TRAVEL SPEEDS (km/h)	64 Max.			
SUSPENSION	Front-Rear		Hydro-Pneumatic	
HYDRAULIC SYSTEM	Hoist time		22±2 sec	
BRAKES	Front	Single Disc, 3-Calipers		
	Rear	Dual Disc, 2 caliper / Disc		
	Parking	Spring applied hydraulic released		
WORKING DIMENSIONS	Loading height	Full Dump Height		Tyre
	5400 mm	11816 mm		33 R51 (Std)
VOLUMETRIC	Min turn radius	Heaped	Struck	Fuel(l)
	13.35 ± 0.25m	82 m³	56 m³	3000
FRAME	Special alloy steel with integral front bumper, rear tubular cross member continuous frame rail beam with variable section and rugged continuous horse collar.			



Max. Payload	91000 kg	Operating Mass:	165000 kg					
Body capacity :	60 Cum	Overall Dimension (LxBxH)mm:	10520 x 6315 x 5250					
ENGINE Make/Model	Cummins / QST30C	MTU / 16V2000C12						
Type	12 V type, IC-Diesel, 4 stroke, Turbo-charged, after cooled Electronic injection Tier 2	16 V type, IC-Diesel, 4 stroke, Turbo-charged, after cooled Electronic injection Tier 2						
DISPLACEMENT	30.5 ltrs	31.84 ltrs						
MAX. TORQUE	4870 Nm @ 1500 rpm	4461 Nm @ 1350 rpm						
FLYWHEEL POWER	1032 HP @ 2100 rpm	990 HP @ 2100 rpm						
GROSS POWER	1082 HP @ 2100 rpm	1050 HP @ 2100 rpm						
TRANSMISSION MAKE	BEML	ALLISON						
MODEL		H8610A						
TYPE	Power Shift	Power Shift						
TRAVEL SPEED	7F / 1R	6F / 1R						
	1	2	3	4	5	6	7	R
BEML	8.59	12.09	16.28	21.92	29.51	40.28	56.43	10.24
ALLISON	9.5	17.4	23.8	30.9	40.3	55.4	—	5.8
SUSPENSION	Front : Hydro-Pneumatic			Rear : Hydro-Pneumatic				
HYDRAULIC SYSTEM	Hoist time			12.5±1.5 sec				
BRAKES	Front	Air over hydraulics Dry Caliper Disc						
	Rear	Air over hydraulics Wet multiple Disc						
	Parking	Spring applied hydraulically released inboard parking Brakes						
WORKING DIMENSIONS								
Loading height	4382 mm							
Full Dump Height	10305 mm							
Tyre	27X49-48PR-bias / 27R49 (optional)							
VOLUMETRIC								
Min. turn radius	10.8m							
Heaped	60 Cum	Struck	41.73 Cum					
Fuel tank capacity	1400 lts							
FRAME	Box section of High tensile steel with integral castings							

BH60M



Max. Payload	54500kg	Operating Mass:	98000kg
Body capacity :	36.4cum	Fly wheel Power:	650hp@2100rpm
Overall Dimension (LxBxH)mm:	9180 x 5420 x 4740		

ENGINE	Model & Type KTTA 19C						
	Diesel, 4 stroke 2-stage turbocharged, after cooled direct injection water cooled.						
	Displacement: 19 ltrs. Max. Torque: 2659 Nm @ 1400 rpm						
TRANSMISSION	AVTEC M6610A						
TRAVEL SPEEDS (km/h)	6F/2R						
1	2	3	4	5	6	R1	R2
9.5	14.2	18.2	28.2	38.1	56.7	7.4	12.1

SUSPENSION	Front-Rear	Hydro-Pneumatic
HYDRAULIC SYSTEM	Hoist time	13±2 sec
BRAKES	Front	Hydraulically actuated Dry caliper disc brake
	Rear	Hydraulically actuated multiple disc brake
	Parking	In board parking brake

WORKING DIMENSIONS	Loading height	Full Dump Height	Tyre
	3730 mm	8445 mm	24.00X35 48PR(E-4)

VOLUMETRIC	Heaped	Struck	Fuel (l)
	36.4 m³	26.0 m³	790

FRAME	Box section of High tensile steel with integral castings		
STEERING	Min. turn radius 10.5m		
OPTIONAL	Engine	QSK 19C TIER III	
	Transmission	BEML make AT GEMS Powershift	
	Coal Body	Struck	Heaped
		36.00 m³	45.46 m³
	Tyre	24.0-R35Radial	

BH35-2



Max. Payload	31,752kg	Operating Mass:	59,560kg
Body capacity :	22.5cum	Fly wheel Power:	375hp@2100rpm
Overall Dimension (LxBxH)mm:	7747x4300 x 3995		

ENGINE	Model & Type Cummins NTA-855-C BIG CAM III					
	Diesel, 4 stroke, turbo-charged, after cooled, direct injection water cooled					
	Max. Torque : 1627 Nm @ 1400 rpm					
TRANSMISSION	AVTEC CLT754 Powershift with Auto lockup clutch					
TRAVEL SPEEDS (km/h)	5F/1R					
	1	2	3	4	5	- R
	7.74	12.57	19.85	29.06	40.11	- 3.94

SUSPENSION	Front-Rear	Hydro-Pneumatic				
HYDRAULIC SYSTEM	Hoist time	16±1.5 sec				
BRAKES	Front	Air over hydraulics Dry Caliper Disc				
	Rear	Air over hydraulics Oil Cooled wet multiple Disc				
	Parking	Dry Caliper Disc				

WORKING DIMENSIONS	Loading height	Full Dump Height		Tyre
	3000 mm	7495mm		18.00X25 32PR (E-4)-tubeless
VOLUMETRIC	Turn radius	Heaped	Struck	Fuel (ℓ)
	8.75 m	22.5 m³	16 m³	540
FRAME	Box section of High tensile steel with integral castings			
STEERING	Turn radius : 8.75m			
OPTIONAL	Engine:	BEML BS6D140-1		
	Transmission : BEML make power shift transmission			
	Coal Body	Struck	Heaped	
		23.0 m³	29.0 m³	
	Tyre	18.00X25, 36 PR (E-4) tubeless		
	18.00 x 25, 40 PR (E-4) tubeless			

CRAWLER BULLDOZERS

Outstanding Productivity

- Engine features a generous power to weight ratio for dynamic dozing and ripping performance.
- Conveniently located armchair steering control for enhanced operator comfort with hexagonal sound suppression Cabin (BD65-1, BD85, BD155 & BD355).
- Pilot operated hydraulic system offers effortless fine control blade & Ripper through Joystick (BD65-1, BD85, BD155 & BD355).
- Hydraulically inter linked Wet multiple disc steering clutch and brakes provide excellent manoeuvrability during gradual and pivot turns.
- Engine, Radiator, fuel tank, floor frame and cabin are mounted on anti vibration cushions to reduce vibration and noise levels (BD155 & BD355).
- Durable work attachment with 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.
- Bolt-on type segmented sprocket permits quick on site replacement. Special grooved type floating seals and unique dust seals provide extended undercarriage life (BD65-1, BD85, BD155 & BD355).
- 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.
- **Optionally, Electronic Transmission with Joystick control for Steering & Transmission is available (BD155 & BD355).**
- **Electronic Governed Engine is available (BD155 & BD355).**

Standard accessories

- Decelerator Pedal
- Floor frame
- Alternator
- Track roller guard
- Back-up alarm
- Final drive case wear guard (BD65-1, BD155 & BD355)
- Hydraulic track adjuster
- Fire extinguisher
- Dry type air cleaner with dust ejector
- Extreme service single grouser shoes
- Master link Sealed and lubricated tracks (BD155 & BD355)
- Master pin dry type tracks (BD50, BD65-1, BD80 & BD85)
- Fully adjustable Operator's Seat with seat belt.
- Lighting system sufficient to work in dark condition
- Lever operated steering and transmission controls
- (Optional Joystick control for steering and transmission for BD155 & BD355)
- Power shift Transmission (BD65-1, BD85, BD155 & BD355)
- Mechanical direct drive Transmission (BD50 & BD80)
- Bolt on type Segmented Sprocket for easy serviceability (BD65-1, BD85, BD155 & BD355)
- ROPS-FOPS Cabin (BD65-1, BD85, BD155 & BD355)
- Canvas Canopy (BD50 & BD80)
- Semi-U Blade (BD355), Straight Blade (BD85 & BD155) & Angle Blade (BD50, BD65-1 & BD80)

Optional Accessories

- Air Conditioner with heater (BD65-1, BD85, BD155 & BD355)
- Giant Ripper with pin puller arrangement (BD155 & BD355)
- Multi shank Ripper
- Coal Blade
- Rake dozer (BD65-1, BD155 & BD355)
- Auto fire detection and suppression system (AFDSS)
- Auto lubrication system (ALS)
- Rear Vision system
- Warning system for operator's fatigue

Operating mass (Standard equipment with Semi-U-dozer)				95420 kg		
Fuel tank Capacity litre				1520		
Overall Dimensions (Std.) (LxBxH) mm				9273 x 5265 x 4585		
ENGINE	Model		Cummins QST30 EPA Tier II			
	Type		Electronic, Diesel, 4 Stroke, water cooled V-type, turbo charged & Charge Air cooled			
	Flywheel Power		634 kW (850 hp) @ 2100 rpm			
	Max. draw bar pull		1577 kN (Usable pull will depend upon traction and weight of equipped tractor)			
TRAVEL SPEEDS (kmph)	1st	2nd		3rd		
Forward	0 - 3.5	2.0 - 6.5		3.0 -11.6		
Reverse	0 - 4.5	2.0 - 8.3		3.0 -14.8		
TORQUE CONVERTER	PTM 44650 DM/3 element, single stage, single phase with lockup clutch					
TRANSMISSION	Planetary power shift, electronically operated 3 forward, 3 reverse					
STEERING CLUTCH	Wet multiple disc, spring loaded hydraulically released					
FINAL DRIVE	Spur & Planetary gear double reduction					
BRAKE	Wet multiple disc, spring loaded hydraulically released					
UNDERCARRIAGE	Pitch	Ground Pressure		Shoe Width & Nos		
	2770 mm	157.51 kPa (Std.Dozer)		710 mm & 39 (each side)		
DIMENSIONS (in mm) - Blade						
DOZER:	Length	Height	Lift above ground	Drop below ground	Max Tilt	Blade cap.m³
Semi-U	5265	2610	1630	894	1250	25.6
U	6205	2610	1630	894	1475	34.4
Standard	Hydrostatic fan drive, Tilttable floor frame, Pilot operated Joystick for blade, Electronic joystick for steering & brake, counter weight with drawbar, Fatigue monitoring system, Rear view camera Fully adjustable pneumatic suspension operator seat, AFSS & ALS					
Optional:	ROPS Canopy, Variable Giant Ripper, U blade					



Operating mass (Standard equipment with Semi-U-dozer)	46550 kg
Fuel tank refill capacity	760ltrs
Overall Dimension	7163 x 4315 x 3695 mm (LxBxH)

ENGINE	Model & Type		BEML BS6D 170-1	
	6 inline, Diesel, 4 stroke, turbo-charged, direct injection			
	Flywheel Power		310 kW (416 hp) @ 2000 rpm	
	Max. draw bar pull		82,000 Kg*	
TRAVEL SPEEDS (kmph)	1st	2nd	3rd	4th
Forward	0-3.3	0-5.1	0-8.5	12.7
Reverse	0-3.2	0-5.0	0-8.47	0-12.6
TORQUE CONVERTER	TCS46-1A	3 element, single stage, single phase		
TRANSMISSION	Planetary power shift, 4 forward, 4 reverse			
STEERING CLUTCH	Wet, multiple disc, hydraulically actuated			
FINAL DRIVE	Spur & Planetary gear, Double reduction			
BRAKE	Wet Contracting band with Hydraulic Booster			
UNDERCARRIAGE	Pitch	Ground Pressure		Shoe Width & Nos
	2260mm	0.85 kg/cm²		610mm, 39nos Each side

DIMENSIONS (in mm) - Blade

DOZER:	Length	Height	Lift above	Drop Below	Max Tilt	Blade cap.m ³
Straight	4315	1875	1545	700	1000	11.6
Angle	5230	1350	1640	720	550	5.9
Semi-U	4315	1955	1545	700	1000	13.0
U	4715	1875	1545	700	1000	15.6
Coal	5530	2125	1565	650	(optional)	24.5

Std. Semi-U dozer with Joystic controls for work attachment, Electronic display & ROPS Cabin

Optional: BD355 with electronic engine and automatic transmission with single joystick control for steering and transmission

Electronic Engine is also available, MSR, GR, AFSS, ALS, AC with heater

*NOTE : Usable Pull will depend upon traction & weight of equipped tractor



Operating mass (Standard equipment with straight tilt dozer)	39105 kg
Fuel tank refill capacity	620 ltr
Overall Dimension	6555 X 4130 X 3745 mm (LxBxH)

ENGINE	Model & Type		BEML BS6D 170-1
	6 inline, Diesel, 4 stroke, turbo-charged, direct injection		
	Flywheel Power		242 kW (324 hp) @ 2000 rpm
	Max. draw bar pull		59,000kg*
TRAVEL SPEEDS kmph	1st	2nd	3rd
Forward	0-3.7	0-6.8	0-11.8
Reverse	0-4.5	0-8.2	0-13.7
TORQUE CONVERTER	3 element, single stage, single phase		
TRANSMISSION	Planetary power shift, 3 forward, 3 reverse		
STEERING CLUTCH	Wet, multiple disc, hydraulically actuated		
FINAL DRIVE	Spur gear & Double reduction		
BRAKE	Wet Contracting band with Hydraulic Booster		
UNDERCARRIAGE	Pitch	Ground Pressure	Shoe Width & Nos
	2140mm	0.86 kg/cm ²	560mm, 41nos Each side

DIMENSIONS (in mm) Blade

DOZER:	Length	Height	Lift above	Drop Below	Max Tilt	Blade cap.m ³
Straight	4130	1590	1560	560	1000	7.9
Angle	4850	1140	1475	625	400	4.2
Semi-U	4130	1790	1560	560	1000	9.7
U	4225	1590	1560	560	1020	10.1
Coal	5260	1795	1625	545	-	17.4

Std. Straight-Tilt dozer with Joystick controls for work attachments, Electronic display & ROPS Cabin

Optional : | BD155 with electronic engine and automatic transmission with single joystick control for steering and transmission.

| Electronic Engine is also available

Optional : | MSR, GR, AC with Heater, AFSS, ALS.

*Note : Usable pull will depend upon traction & weight of equipped tractor.



Wheel Dozers



EQUIPMENT	BD30W-1	BD14W
OPERATING MASS(kg)	30000	15000
OVERALL DIMENSION	8700x4500x4090 mm	7120x3655x3330 mm
ENGINE	BEML	BEML
	BS6D140-1	BS6D105-1
POWER (fhp/rpm(kW))	300/2100(224)	126/2000(94)
HYD. SYSTEM TYPE	Gear Pump	Vane Pump
RELIEF PRESSURE (kg/cm ²)	140	140
TRAVEL SPEEDS	3F / 3R	4F / 3R
SPEED (kmph) Min F/R	6.67/6.4	6.28 / 6.61
Max F/R	24.75 / 23.72	31.4 / 22.34
TURNING RADIUS (mm)	9400	7200 (min)
MAX RIMPULL (kg)	22000	10200
TRANSMISSION	Powershift	Powershift
FRONT AXLE	Fixed	Fixed
REAR AXLE	Oscillating	Oscillating
REAR OSCILLATION	15° (Both side)	±10°
BRAKES	Wet Multi disc	Wet Multi disc
FUEL TANK (litres)	445	185
TYRE(F/R)	29.5X29-28PR	18X25, 24PR (Tube less)
BLADE (mm)	Straight	Angling & Tilting
Blade size (LxH)	4500 X 1470	3655 X 965
Max Lift above ground	1440	1050
Max Drop below ground	415	660
Max tilt adjustment	800	400
Blade angle	35°	22.5°
Blade Capacity (cum)	4.7 (Std.)	2.4 (Std)

HYDRAULIC EXCAVATORS

Salient Features :

Efficient hydraulic System :

- Positive control main pumps hydraulic system with advance optimum hydraulic control system assures easy & smooth independent and simultaneous feature makes full use of engine output power for maximum productivity with faster cycle time.

Powerful economic engine:

- BEML diesel turbo charged engine, 4 stroke, water cooled, overhead valve, direct injection system, provides reduced fuel consumption and assures high operational economy. The turbo charger with after cooler allows engine to attain high performance even on high altitude job sites.

Electrical drive :

- AC Induction motor option available with 3.3 / 6.6 kV for BE1000E-1 and BE1800E

Effort free operation:

- Work equipment controls are simple and light touch due to the hydraulically assisted control system.

Maximum working performance:

- Mode selection switch provided in the operator's cabin can be used for high excavation efficiency. Depending on the operations like general digging, slope finishing etc., the mode can be selected for a particular application.

Easy maintenance:

- Centralised monitoring system within the operator's cab allows fast daily checks and also keeps the operator constantly informed of any abnormality during operation.

Operator comfort:

Specially designed cab provides plenty of work space and excellent visibility and mounted with cabin dampers.

STANDARD EQUIPMENT

- Starting Motor
- Alternator
- 2 / 4 Batteries
- Dry type air cleaner with turbo Pre-cleaner
- PPC hydraulic control
- Track shoe
- Hydraulic Track adjuster (BE700, BE1000-1, BE1000E-1, BE1800D & BE1800E)
- Grease filling type Track adjuster (BE75, BE210, BE220G & BE300LC)
- Fully hydrostatic drive for Swing & Travel
- Suction type fan
- Radiator, Oil cooler & CAC (wherever applicable)
- Front light
- Electric horn
- Counter weight
- Rear view mirror
- All weather steel cab (with safety glass windows, lockable door, window wiper, room lamp and adjustable seat with seat belt & remainder)
- Tool kit
- Portable fire extinguisher
- FOPS structure - (BE700, BE1000-1 & BE1000E-1)
- FOPS Integrated Cabin for BE1800E & BE1800D with Viscous mounts
- ROPS cabin - (BE220G, BE300LC)
- High rise cabin (BE1000-1, BE1000E-1, BE1800D & BE1800E)
- Front windshield protective guard
- AFDSS (Automatic fire detection and suppression system)
- Rear Vision system
- Warning system for operator's fatigue.
- Travel alarm
- Cabin heater / air conditioner with defrosting

OPTIONAL ACCESSORIES

- Windshield washer
- High rise cabin (BE220G, BE300LC & BE700)
- Track shoes
- Long arm
- Extra long arm
- Short arm
- Super long front reach (BE220G)
- Wide range of backhoe / Face shovel buckets
- Auto lubrication system
- Electronic monitoring system



BE1800E



Equipment	LOADING SHOVEL	BACKHOE
Operating mass (Std equipment)	175,000kg	175,000 kg
Overall Dimension (LxBxH)mm	13235 X 6197 X 6750	17300 X 6197 X 7100
Gross Horse Power	2 X 300kW@1500rpm	

MOTOR	TYPE	Squirrel cage Induction motor
	Output	2 x 300kW
HYDRAULIC SYSTEM	Unique four pump system, and independent swing function	
HYDRAULIC PUMP	4 variable capacity piston pumps	

RELIEF PRESSURE	Boom/Arm/Bucket	Swing	Travel	Pilot
(kg/cm²)	320	320	320	35
HYD. CYLINDER (Dia X length)	Boom	Arm	Bucket	
	BH	2X280X2660	2X250X2180	2X200X2170
	LS	2X280X2110	2X225X1830	2X225X1870
TRAVEL SPEED	2.7kmph	Swing Speed : 4.5rpm		
DRIVE TYPE	Fully Hydrostatic drive system			

UNDERCARRIAGE	Track Length	Gauge	Shoe Width & Nos		Draw bar pull
	5780	4350	810mm, 49nos Each side		105000 kgf
STANDARD EQUIPMENT			Boom	Arm	Bucket
	Loading Shovel		5900	4400	10.2cum
	Backhoe		9100	4100	10.5cum
MAX WORK RANGE		Dig ht	Dump ht	Dig reach	Dig Depth
(mm)	LS	14110	10230	13140	4050
(mm)	BH	13550	8730	16450	10000
FORCES LS/BH (kN)	Dig Force: 716/571			Arm Force: 716/535	
WORK ATTACHMENT	Soft touch joystick pilot controls with accumulator system				
OPTIONAL	Heater, Trackshoe 1010mm, FOPS, Air conditioner				



BE1800D



Equipment	LOADING SHOVEL	BACKHOE
Operating mass (Std equipment)	175,000kg	175,000kg
Overall Dimension (LxBxH)mm	13235 X 6000 X 6750	17300 X 6000 X 7100
GROSS HORSE POWER	2 X 354 kw @ 2000 rpm	

ENGINE	Model	2XBEML BSAA6D140EG
	Gross Horse Power	2 X 354kW@2000 rpm
HYDRAULIC SYSTEM	Unique four pump system, and Independent Swing Operation	
HYDRAULIC PUMP	4 nos variable Displacement piston pump	

RELIEF PRESSURE	Boom/Arm/Bucket	Swing	Travel	Pilot
(kg/cm²)	320	320	320	35
HYD. CYLINDER(Dia X length)	Boom	Arm	Bucket	
	BH	2X280X2660	2X250X2180	2X200X2170
	LS	2X280X2110	2X225X1830	2X225X1870
TRAVEL SPEED	2.7kmph	Swing Speed : 4.5rpm		
DRIVE TYPE	Fully Hydrostatic drive system			

UNDERCARRIAGE	Track Length	Gauge	Shoe Width & Nos		Draw bar pull
	5780	4350	810mm, 49nos Eachside		105000 kgf
STANDARD EQUIPMENT			Boom	Arm	Bucket
	Loading Shovel		5900	4400	10.2cum
	Backhoe		9100	4100	10.5cum
MAX WORK RANGE		Dig ht	Dump ht	Dig reach	Dig Depth
(mm)	LS	14110	10230	13140	4050
(mm)	BH	13550	8730	16450	10000
FORCES LS/BH (kN)	Dig Force: 716/571			Arm Force: 716/535	
WORK ATTACHMENT	Soft touch joystick pilot controls with accumulator system				
OPTIONAL	Heater, Trackshoe 1010mm				



Equipment	LOADING SHOVEL		BACKHOE	
Operating mass (Std equipment)	98,000kg		95,000kg	
Overall Dimension (LxBxH)mm	10715 X 4610 X 5770		15790 x 4610 x 5800	
Net Power (FHP)	404kW(542 FHP)@1700 rpm			
ENGINE	Model	BEML BSA6D170 EG		
	6 inline, Diesel, 4 stroke, Turbo charged, after cooler			
	Flywheel Power	404kW(542 FHP)@1700 rpm		
HYDRAULIC SYSTEM	Unique three pump system, Independent closed loop swing			
HYDRAULIC PUMP	2nos variable Displacement tandem pump			
	1 No variable Displacement piston pump			
RELIEF PRESSURE	Boom/Arm/Bucket	Swing	Travel	Pilot
(kg/cm ²)	320	300	320	35
HYD. CYLINDER	Boom	Arm	Bucket	Bottom Dump Cylinder
(Qty-Bore x Stroke mm)	LS 2-φ225 x 1805	2-φ180 x 1765	2-φ200 x 1530	2-φ140 x 435mm
	BH 2-φ225 x 2200	1-φ250 x 2015	1-φ225 x 1630	-
TRAVEL SPEED	High - 3.4 kmph.		Swing Speed : 4.5 rpm	
DRIVE TYPE	Fully hydrostatic drive			
UNDERCARRIAGE	Track Length	Track Gauge	Shoe Width & Nos	Draw bar pull
	5030 mm	3900 mm	710 mm, 51 nos. Each side	62000 kgf
STANDARD EQUIPMENT		Boom	Arm	Bucket
	Loading Shovel	5100 mm	3800 mm	6.1 m ³
	Backhoe	7900 mm	3415 mm	5.0 m ³
MAX WORK RANGE (mm)	Dig ht	Dump ht	Dig reach	Dig Depth
	LS	12170	8780	3910
	BH	12700	8400	7900
FORCES LS/BH (kg)	Budget Dig Force : 58500/37000		Arm crowding Force: 56000/34000	
WORK ATTACHMENT	Soft touch joystick pilot controls with accumulator system			
OPTIONAL	LS: Bottom dump m ³ (4.5, 5.5 & 7.0)			
	BH: boom (9.25) Arm(4.6, 5.7) Bucket m ³ (3.1, 3.7, 4.3, 5.4, 5.5)			

BE1000E-1 : Electric version models with 6.6kv / 3.3kv, 400kW@1477rpm, with 3 phase Induction motor are also available



Equipment	LOADING SHOVEL		BACKHOE		
Operating mass (Std equipment)	70,000 kg		69,500 kg		
Overall Dimension (LxBxH)mm	9540x3910x5050		12880x3910x4910		
Net Power (FHP)	309kW (415 FHP) @ 1800 rpm				
ENGINE	Model	BEML BSA6D140-1			
	6 inline, Diesel, 4-stroke, Water cooled, Turbo charged, After cooled & direct injection				
	Flywheel Power	309kW (415 FHP) @ 1800 rpm			
HYDRAULIC SYSTEM	Unique three pump system, Independent closed loop swing				
HYDRAULIC PUMP	2 nos Variable Capacity piston pumps with positive controls, 1 no Variable capacity piston pump for swing with closed loop				
RELIEF PRESSURE	Boom/Arm/Bucket	Swing	Travel	Pilot	
(kg/cm²)	320	300	275	35	
HYD. CYLINDER	Boom	Arm	Bucket	Bottom Dump Cylinder	
(Qty-Bore x Stroke, mm)	LS	2-φ180 x 1490	2-φ225 x 1530	2-φ180 x 1300	2-φ140 x 435mm
	BH	2-φ200 x 1892	1-φ200 x 2250	2-φ180 x 1540	-
TRAVEL SPEED	High - 4.6 kmph		Low - 2.7 kmph	Swing speed : 7.5 rpm	
DRIVE TYPE	Fully hydrostatic drive with two speeds				
UNDERCARRIAGE	Track Length	Track Gauge	Shoe Width & Nos		Draw bar pull
	4500 mm	3300 mm	610mm, 47 each side		56000 kgf
STANDARD EQUIPMENT		Boom	Arm	Bucket	
	Loading Shovel	4600 mm	3400 mm	4.5 m³	
	Backhoe	7100 mm	2870 mm	4.0 m³	
MAX WORK RANGE (mm)	Dig ht	Dump ht	Dig reach	Dig Depth	
	LS	10840	7710	10130	3530
	BH	11040	7300	12080	8070
FORCES LS/BH (kg)	Bucket Dig Force : 44000/30300 Arm Crowding Force: 45000/29755				
WORK ATTACHMENT	Soft touch joystick pilot controls with accumulator system				
OPTIONAL	LS : Bottom dump m³ (3.1 & 3.8)				
	BH : Boom (8.4) Arms (3.6, 5.1), Bucket m³ (2.4, 2.8, 3.3, 3.5, 4.5)				

BE700E : Electric version models with 6.6kv/ 3.3kv, 300 kw@1477rpm, with 3 phase induction motor are also available.

WHEEL LOADERS

SALIENT FEATURES :

Powerful Turbo-charged engine for fuel economy. Optimum power to weight ratio for wide range of loading applications complying with Bharat Stage III(CEV) emission norms.

Pilot operated hydraulic system with joystick offers effortless work attachment control.

Orbitrol steering system provides excellent manoeuvrability during gradual and sharp turns with enhanced operator comfort.

Engine and Transmission are mounted on anti-vibration rubber cushions to isolate vibration and to maintain low noise level.

STANDARD EQUIPMENT

Engine starter, Alternator
Head Lights
Rear Working Lights
Brake Lamp
Coolant Temperature
Service Meter
Voltmeter
Engine Oil Pressure
Dust Indicator
Cabin Fan
General Purpose Bucket
Front Light
Counter Weight
Rear View Mirror
Electronic Monitoring System
All Weather Steel Cab
Safety Glass for Windows
Lockable Door
Window Wiper
Cabin Lamp
Suspension Seat
Tool Kit
Portable Fire Extinguisher
Wind Shield & Washer

OPTIONAL ACCESSORIES

ROPS/FOPS Cabin
Air Conditioner with Heater and Defroster
Boom Kick out
Rear view Camera
Bucket Positioner
Cold Starting kit
Auto fire detection and suppression system
Auto lubrication system
Operator fatigue monitoring system
Payload monitoring system
Operator seat belt warning
Optional Buckets of varying size
Cabin interiors with ABS panels



EQUIPMENT		BL40		
OPERATING MASS		28000 kg		
NET POWER fhp/rpm(kW)		300@2100rpm (224)		
OVERALL DIM (LxBxH) (mm)		9470 X 3510 X 4090		
BUCKET CAPACITY		4.7 cum (std)		
ENGINE BEML		BS6D140-1		
		Turbocharged, Water Cooled direct injection		
TRANSMISSION		Powershift 3F / 3R		
TRAVEL SPEED (kmph)		I	II	III
Forward		6.67	12.9	24.75
Reverse		6.4	12.57	23.72
TURNING RADIUS		8900 mm		
HYD. SYSTEM CAPACITY		181 lts.		
RELIEF PRESSURE		210 bar		
HYD. CYLINDERS (Dia X Length)	Lift	2X200X805 mm		
	Dump	1X225X526 mm		
	Steering	2X110X547.5 mm		
TYRES		29.50X29-28PR (L-3)		
FUEL TANK		445 lts.		
LOADER Dump clearance (mm)		3265		
Operating height (mm)		6095		
Dump angle		45°		
ARTICULATION		35° each side		
BREAKOUT FORCE		23500 kg (With Std. Bucket)		
Optional Bucket		5 cum (light duty), 6 cum (extra light), 2.8 cum 3.2 cum (Iron one), 3.5 cum, 4.0 cum		

MINING & CONSTRUCTION EQUIPMENT

MOTOR GRADERS

SALIENT FEATURES

Performance : High Power BEML/Ashok Leyland BS-III Emission norms engine, Hydro Shift/ Power shift transmission with automatic lock-up clutch and heavy-duty Final drive with differential lock/unlock system to provide optimum combination of speed and tractive efforts. All graders comes with Chain driven Tandem axle for better manoeuvrability.

BEML launched BG405A Motor Grader with Automatic Power Shift transmission and Full Hydraulic brake system for construction segment which is designed and developed with in-house R&D Effort.

Productivity: High Power engine coupled with high performance blade ensures high productivity. Finger tip control of transmission gear shifting provides high manoeuvrability.

Reliability: Adjustment-free wet multiple disc brakes for Tandem axle offer better reliability. Comes with Air over Hydraulic brake system for complete equipment control.

Serviceability: Low maintainability and repair-ability index, evaluated through SAE J 817A, meeting global standard.

Manoeuvrability: Orbitrol Power steering with a good combination of steering, steering angle, tread and wheel base provide high degree of manoeuvrability. Frame articulation and Wheel leaning for quick and short vehicle turning on congested work sites.

Control: Ideally located spacious cabin with ergonomically designed operator seat and control offer maximum comfort and operational ease.

Safety: Features include integral ROPS/FOPS cabin, emergency steering, dual brake system to meet relevant safety standards, Engine ignition interlock to ensure transmission is in neutral condition.

STANDARD ACCESSORIES

General: Integral ROPS/FOPS cabin, electronic dashboard system, vandalism protection cap (fuel tank), head and tail lights, horn, turn signal lights, alternator, electric starter, key switch, wiper motor, engine shut-off switch, manual emergency steering, wind shield washer, rear view mirror, portable fire extinguisher, tool kit, parking brake Switch, tilt-able steering Console and work-adjustment control levers, Pilot Check valve for blade lift, Blade tipping, Front wheel leaning, Drawbar side shift, Frame Articulation cylinder, Front & Rear working lamps, Front Pull Hook, central warning lamps & buzzer, battery cut-off-switch, backup alarm, cabin floor mat, safety seat belt, emergency brake, fresh air fan, Tungsten carbide tipped cutting edge.

Gauges: Ammeter, Voltmeter, air pressure, engine oil pressure, water temperature, transmission oil temperature, air cleaner restriction, speedometer, tachometer, electrical hour meter and fuel level, Transmission gear range & diagnostics.

Guards: Engine Cover, Transmission belly guard, Radiator fan guard (meets ISO 3457 requirement).

Indicators: Hi-beam, reverse, turn signal, lube oil pressure, water temperature, parking brake "on", alternator warning, transmission temperature & pressure, fuel level, air pressure.

Alarms: Air pressure, water temperature, Vehicle over-speed, transmission oil temperature, lube oil pressure, transmission filter clogging, parking brake "on", Operator fatigue.

OPTIONAL ACCESSORIES:

Front Dozer attachment, Ripper Attachment, Scarifier Attachment, ROPS Cabin, Tyre inflation kit, auto emergency steering, Auto Lubrication system, Auto Fire Suppression system, Manual blade down system, air conditioner and heater unit, fast fill system for fuel, cold starting kit, fog lights, Operator fatigue monitoring system, Auto Blade levelling system, G-3 Rock type tyres.

Motor Graders



EQUIPMENT	BG825
OPERATING MASS	28,000 kg
ENGINE BEML	BS6D140EG
POWER	209kW(280hp)@2100rpm
FRAME	Articulated
TRANSMISSION	BEML Hydrosift
TRAVEL SPEEDs	8F / 8R
SPEED(Kmph) max (F/R)	44.9 / 47.9
min (F/R)	4.0 / 4.3
DRAW BAR PULL (kg)	14420
STEERING ANGLE	50° each side
TURNING RAIDUS (mm)	7900
MOULD BOARD (LHT) in mm	4876 x 692 x 25
CUTTING EDGE (LHT) in mm	2438 x 203 x 19
BLADE max lift above	490 mm
max drop below	680 mm
Max shoulder reach (L/R)	2400 / 2400
Max bank cut angle	90°
TYRES	18.00 x 25 - 12 PR (L-3) Rock type tubeless tyres
BRAKES	Foot operated, oil discbrakes air actuated on 4 rear wheels
OVERALL DIM. (LWH),mm	10010 x 3050 (tyre end to end) x 4000
OPTIONAL	Rear mtd. Ripper, Push plate, type inflation kit, AC cabin Auto lub., Auto fire.



Equipment		BP100	BP70	BP41
LIFT CAPACITY (kg) (As per ISO 8813)		100000	70000	41000
DIMENSION, mm (LXW)		5917X4931	5660X3760	4890X3425
ENGINE	BEML	BS6D170-1	BS6D170-1	B6D125
POWER fhp/rpm(kW)		416/2000(310)	324/2000(242)	180/1850(134)
OPERATING WEIGHT (kg)		62000	46000	29870
TRANSMISSION (BEML)		Powershift Planetary gear	Powershift Planetary gear	Helical gear Constant mesh, hand operated
GEAR F/R		4F/4R	3F/3R	5F/4R
TRAVEL SPEED (Kmph)		3.3-12.7/3.2-12.6	3.7-11.8/4.5-13.7	2.4-10.0/3.1-9.6
ROPE BREAK STRENGTH		48114 kg	27400 kg	21400 kg
BOOM	Overhang	1.4 - 8.0m	1.2 - 6.2m	1.22 - 5.5m
	Length	8000	6200	5500
HOOK SPEED Raise		2.8/6	6.5 / 13.5	6.5 / 13.5
(m/min)	Lower	2.8/6	6.5 / 13.5	6.5 / 13.5
TRACK GUAGE (mm)		2700	2380	2200
COUNTER WEIGHT (kg)		15587	9500±6%	4680±6%
WINCH TYPE	Two Speed Hydraulically operated reversible, with Automatic braking system & built in planetary system.			
STANDARD ACCESSORIES				
BP41	Hook & Boom winch, 5.5m boom with cable counter weight mechanism hydraulic track adjusters, Adequate lifting system, under guards			
BP70	Hook & Boom winches, counter wt. mechanism 6.2m boom with cables, hydraulic track adjusters, bottom guards (3 pieces), adequate lifting			
BP100	Hook and Boom Winches, Counter weight mechanism with 8.0m boom with wire cables. Hydraulic track adjusters, Adequate lighting system Integrated Hexagonal ROPS Cabin, Boom Angle Indicator, Boom Kick-out mechanism			



Water Sprinklers



Equipment	BWS70	WS28-2
Operating mass	1,34,000kg	53,700kg
Overall Dimension ,mm	9710 X 5650 X 6470	7995 X 4344 X 3946
ENGINE Cummins	KTA38C	BS6D140-1
NET POWER (FHP)	883 HP @ 2050 rpm (659 kW)	375 HP @ 2100 rpm (280 kW)
CAPACITY(litres)	70000	28000
TRANSMISSION	BEML	AVTEC CLT 754
TRAVEL SPEED(F/R)	5/1	5 /1
FUEL TANK (litres)	1240	540
BRAKES	Front Air over hydraulics Dry Caliper Disc	
	Rear Air over hydraulics wet multiple Disc	
WATER SYSTEM Capacity	180cum/hr	110cum/hr
Head	85m	55m
Piping(S/D)	100/80	80/50
Sprinkling	Pressurised	Pressurised
Spreading	21m	14m
GRAVITY SPRINKLING	Through perforated manifold connected to tank bottom	
NOZZLES	Fish Tail type	Fish Tail type
OPTIONAL	Engine : QST30C	Cummins NTA855C BIGCAM III
	Mist System on BWS70	Mist System
	Fire fighting attachment	Hose reel assembly
		Water Monitor assembly
		Front sprinkling

Tyre Handler - BL14TH



Operating mass (Standard equipment)		20,250 kg		
Overall Dimension (LxBxH)mm		8360 X 2781 X 3330		
ENGINE	Model & Type	BEML BS6D105-1		
	Flywheel Power	94kW(126hp)@2000rpm		
HYD. SYSTEM CAPACITY 195 ltrs		Relief Pressure(kg/cm ²) 140		
TRANSMISSION :		Power Shift		
Max. Speed :		31 kmph		
MAX WORK RANGE Tyre Lift	Tyre size	Height	Clamping	
(mm)	3500kg	18X25-36X51	3200mm	1420-3380
Articulation	25° each side		Outer Turning radius: 7200mm	
Rotation	Hand Axial:360° cont.		Lateral:350° non cont.	

UNDERGROUND MINING EQUIPMENT



Side Discharge Loader



DGMS APPROVAL NO : 532 OF 2005 (Standard version)

DGMS APPROVAL NO : 650 OF 2012 (With Cable Reeler Drum)

Description	BL10C - SDL, BL10C - SDL (with Cable Reeler Drum)	
Operating Weight	8600 kg, 9200 kg (with Cable Reeler Drum)	
Bucket Capacity	1.1 cum	
Electrical System		
Engine Motor	FLP Induction Motor DGMS Approved.	
Rated Power	48 kW, 55kW (with Cable Reeler Drum)	
Rated Voltage	525 V +/-10%, 3 Phase, 50 Hz +/-5%	
Rated Speed	1485 rpm	
Cables		
Trailing Cable	FT7	
Lighting and control	PLC4	
Control System		
Head Lamp	24 V AC	
Audio-Visual Alarm	12 V DC	
Fire Extinguisher	Class of fire - B&C	
Effective Jet Length	2-2.5 m	
Hydraulic System		
Hydraulic Pump	Gear Triple pump	
Capacity	100 + 100 + 45 Lpm	
Hydraulic Motor		
Travel Drive	Axial Piston Motors with built-in Counter Balance Values and Planetary Reduction Gear Box	
Fan Drive	Gear Motor	
Bucket Chain Drive	Bi-directional Gerotor Motor	
Under Carriage		
Track Shoe Width	330mm (Type : Single / Triple Grouser)	
Gradient	± 14° (1 in 4) longitudinal ± 9.5° (1 in 6) lateral	
Final Drive		
Drive Type	Hydraulic with Axial Piston Motor and Planetary Reduction Gear Box for each Track	
Maximum Travel Speed	0.83 m/sec	
Overall Dimensions mm		
Overall Height	1900-2100 Overall Length - 4949±50 (5500 with Cable Reeler Drum)	
Minimum Discharge Height, mm	490±10	Overall Width - 1825±10
Maximum Discharge Height, mm	1984±10	



Mine Cruiser



Engine	Make / Model Perkins 1104C-44T	
Cooling	Liquid Cooled	
Power	63kW@2300rpm (Max. Gross Power : 74.5kW@2300rpm)	
Performance	Speed 9 Km/Hr Low Speed / 23 Km/Hr High Speed	
	Braking Speed on good road : 0.4g (depending on road surface)	
Weights : Payload :	2,000 Kg	
Machine weight,	7,000 Kg (Approx)	
GVW	9,000 Kg	
Overall Dimensions	Length 6,807 mm	Width 2,000 mm
	Max height-driver's cab	2,120 mm
	Min. Ground clearance	250 mm
Turning Radius	Cornerability 5 x 5 m	
Transmission		
Type	Hydrostatic (Pump & Motor(s))	
Flame Proofing	Dry Scrubber System, SABS and GME approved	
Intake manifold	Steel, custom made, with cylinder head adaptor plate & flametrap	
Exhaust manifold & exhaust	St. Steel (316) water-cooled system.	
Discharge Temperature	150 max Degr. C	Surface Max. Temp. : 150 max. Degr. C
Starting system	Hydraulic, with manual recharge of accumulator	
Alternator	12 Volt, Self exciting, fully flameproofed with SABS approval.	
	12 Volt, flameproof lights with 20 lux. at 10m, each	
Axles	Planetary	
Front :	Steer	
Rear :	Rigid/Steer to achieve 5 x 5m cornerability	
Suspension		
Front :	Coil springs with shocks	
Rear :	Coil springs with shocks	
Tyres	Front & Rear Tube (3 piece rim), Size 9.00 x 20	
Brakes		
Service - Axles	All Wheel Brakes, totally enclosed internal Wet-Multi-Disc,	
	Hydraulic Pressure Applied with Accumulator Back-up	
Emergency	Spring Applied / Hydraulic Pressure Release (SAHR)	
Parking	Same as Emergency	
Automatic brake applicator (ABA)-Neutral Brake - Hydrostatic braking		

Battery Operated Mine Locomotive



Description	Battery Operated Mine Locomotive
Operating Capacity	2, 3, 4, 6, 8 & 12 Tonne (Against Requirement)
Track Gauge (mm)	610, 1005
Locomotive type	FLP / Non - FLP
Suitable for	Degree 3 Coal Gassy Mines & Metal Ferrous Mines
Battery	High Density C2 / C5 rating
Controls	State - of - the - art PWM controls
Chassis	Robust design with High Strength Steel split type design
Wheel & Axle	High strength Alloy Steel

Granby Car



Description	Granby Car
Capacity	5, 5.4, 7.5 & 10 tonne (Other sizes on request)
Track Gauge	610 mm, (for 5T), 1005 mm

CONSTRUCTION EQUIPMENT

BD85



Operating mass (Standard equipment with straight tilt dozer)			24340kg			
Fuel tank refill capacity			420 Ltrs			
Overall Dimension (LxBxH) mm 5915 x 3460 x 3395 (Exhaust pipe)						
ENGINE	Model & Type		BEML BS6D 125-1			
	6 inline, Diesel, 4 stroke, turbo-charged, direct injection, water cooled					
	Flywheel Power		172 kW (230 hp) @ 2000 rpm			
	Max. draw bar pull		40,000kg*			
TRAVEL SPEEDS (kmph)	1st	2nd	3rd			
Forward	0-3.6	0-6.7	0-11.8			
Reverse	0-4.2	0-8.1	0-14.2			
TORQUE CONVERTER	3 element, single stage, single phase					
TRANSMISSION	Planetary power shift, 3 forward, 3 reverse					
STEERING CLUTCH	Wet, multiple disc, hydraulically actuated					
FINAL DRIVE	Spiral bevel gear, Double reduction					
BRAKE	Wet Contracting band, foot operated					
UNDERCARRIAGE	Grouser ht	Ground Pressure	Shoe Width & Nos			
	65mm	0.67kg/cm²	560mm, 41nos Each side			
DIMENSIONS in mm	Blade					
DOZER BLADE TYPE	Length	Height	Max. Lift above	Drop below	Max. tilt	Blade cap (m³)
Straight tilt blade	3460	1380	1350	620	860	4.5
Angle blade	4260	1125	1040	740	600	4.31
Coal blade	4450	1540	1625	545	—	10.10
SEMI-U	3810	1550	1385	620	860	7.5
STD :	Straight tilt dozer with Joystick controls for work attachment, Electronic Display & ROPS Cabin					
OPTIONAL :	AC with Heater, Multi Shank Ripper, ALS, AFSS, SU-Blade, Coal blade					
NOTE : Usable pull will depend upon traction & weight of equipped tractor						



Operating mass (Standard equipment with angle dozer canvas canopy)	21550kg
Fuel tank refill Capacity	420ltrs
Overall Dimensions (LxBxH) mm 5890 x 4260 x 3240 (Exhaust pipe)	

ENGINE	Model & Type		BEML BS6D 125-1		
	6 inline, Diesel, 4 stroke, turbo-charged, direct injection water cooled				
	Flywheel Power		134 kW (180 hp) @ 1850 rpm		
	Max. draw bar pull 19,600kg*				
TRAVEL SPEEDS (kmph)	1st	2nd	3rd	4th	5th
Forward	0-2.4	0-3.4	0-5.2	0-7.4	0-10.0
Reverse	0-3.1	0-4.5	0-6.7	0-9.6	NA

TRANSMISSION	Helical gear, constant mesh, hand operated, 5 Forward, 4 Reverse				
FINAL DRIVE	Spur gear & Double reduction				
STEERING CLUTCH	Wet, multiple disc, hydraulic together with spring type Booster				
BRAKE	Wet Contracting band				
UNDERCARRIAGE	Pitch	Ground Pressure		Shoe Width & Nos	
	2000mm	0.58 kg/Cm ²		560mm, 38nos Each side	

DIMENSIONS in mm BLADE						
DOZER TYPE	Length	Height	Lift above	Drop Below	Max. tilt	Blade cap(m ³)
Angle blade	4260	1080	1260	530	500	3.55
Straight	3460	1280	1175	610	735	4.10
Coal	4450	1540	1275	535	(optional)	10.10
STD :	Angle Dozer with Canopy					
Optional	Multi Shank Ripper					

* Note : Usable pull will depends upon traction weight of equipment.



STD : Angle dozer with Joystick controls for work attachment, Electronic display & ROPS Cabin

Operating mass (Standard equipment with Angle dozer & ROPS Cabin) **18830kg**

Fuel tank refill capacity **320 Ltrs**

Overall Dimensions 5360 x 3970 x 3050 mm (LxBxH)

ENGINE Model & Type **BEML B6D125-1**

6 inline, Diesel, 4 stroke, Water cooled, direct injection

Flywheel Power 123 kW (165 hp) @ 1850 rpm

Max. draw bar pull 28,000kg *

TRAVEL SPEEDS (kmph) Range Forward Reverse

1st 0-3.9 0-5.0

2nd 0-6.8 0-8.6

3rd 0-10.9 0-13.7

TORQUE CONVERTER 3 element, single stage single phase

TRANSMISSION Planetary power shift, 3 forward, 3 reverse

STEERING CLUTCH Wet, multiple disc, hydraulically actuated

FINAL DRIVE Spur gear & Double reduction

BRAKE Wet, Contracting band with Hydraulic Booster

UNDERCARRIAGE Pitch Ground Pressure Shoe Width & Nos

1880mm 0.70kg/sq.cm 510mm, 39nos Each side

CONTROLS Joystick control for work attachment

Arm chair steering control

DIMENSIONS in mm

DOZER TYPE Length Height Lift above Drop Below Max. tilt Blade cap(m³)

Straight 3400 1150 1162 642 890 4.5

Angle 3970 1050 1250 545 400 3.24

Coal 4450 1540 1230 705 – 10.10

SU 3400 1370 1344 584 830 5.0

OPTIONAL : Multi Shank Ripper, AC with Heater, AFSS, Coal Blade, SU Blade

*NOTE : Usable Pull will depend upon traction & weight of equipped tractor



BD50



Operating mass (Standard equipment with Angle dozer)	12170kg
Fuel tank refill capacity	240ltrs
Overall Dimension (L xBxH) mm 4700 X 3350 X 2870 (Exhaust pipe)	

ENGINE	Model & Type BEML BS6D105-1		
	6 inline, Diesel, 4 stroke, turbo-charged, direct injection		
	Flywheel Power	67 Kw (90hp) @ 1750 RPM	
	Max. draw bar pull	8280 kg*	
TRAVEL SPEEDS	Range	Forward	Reverse
km/h	1st	0-2.5	0-3.2
	2nd	0-3.5	0-5.2
	3rd	0-5.5	0-8.0
	4th	0-9.4	—

TRANSMISSION	Spur Gear, Selective Sliding, hand operated		
STEERING CLUTCH	Dry, multiple disc, Spring Booster type		
FINAL DRIVE	Spur gear, Double reduction		
BRAKE	Dry Contracting Band, Hand operated		
UNDERCARRIAGE	Pitch	Ground Pressure	Shoe Width & Nos
	1600mm	0.73kg/sqcm	400mm, 38nos Each side

DIMENSIONS in mm						
DOZER TYPE	Length	Height	Lift above	Drop Below	Max Tilt	Blade cap (m³)
Straight	2760	990	930	445	250	2.0
Angle	3350	865	1050	380	250	2.19
STD	Angle dozer with Canopy					
OPTIONAL :	Multi Shank Ripper, Steel Cabin, Winch					

*NOTE : Usable Pull will depend upon traction & weight of equipped tractor



Operating mass (Std equipment)	30,800kg
Overall Dimension (LxBxH)mm	10860 x 3190 x 3320 (Overall height Top of boom)
Net Power (FHP)	147kW(197HP) @1550rpm

ENGINE	Make & Model BEML BS6D125			
	6 inline, Diesel, 4 stroke, Turbocharged, Direct Injection			
	Flywheel Power	147kW(197HP) @ 1550rpm		
HYDRAULIC SYSTEM	Positive control system with two modes			
HYDRAULIC PUMP	Variable Displacement piston type double pump			
RELIEF PRESSURE	Boom/Arm/Bucket	Swing	Travel	Pilot
(kg/cm²)	320	275	320	30
HYD. CYLINDER	Boom	Arm	Bucket	
(Nos. x Dia x length)	2X140X1480	160x1645		140X1290
TRAVEL SPEED	3.2kmph		Swing Speed : 9.4rpm	
DRIVE TYPE	Fully hydrostatic with two stage planetary reduction			
UNDERCARRIAGE	Track Length	Track Gauge	Shoe Width & Nos	Draw bar pull
	4045 mm	2580 mm	610mm, 51nos Each side	21,500kg
STANDARD EQUIPMENT	Boom	Arm	Bucket	
	6470 mm	3130 mm	1.57cum	
MAX WORK RANGE	Dig ht	Dump ht	Dig reach	Dig Depth
	10150	7100	10920	7320
FORCES (kg)	Dig Force: 17200		Arm Force: 13000	
WORK ATTACHMENT	Soft touch joystick pilot controls with accumulator system			
OPTIONAL	Arms (2.2, 2.55 & 4.02) m			
	Buckets (0.5-2cum), Trapezoidal (0.9cum) slope finish (0.35cum)			
	Ripper Bucket (0.9cum), Clamshel Bucket, Hyd. Rockbreaker			
	Lightduty bucket and narrow bucket			



Operating mass (Standard equipment)	22,800kg
Net Power (FHP)	110kW(148HP) @2000rpm
Overall Dimension (LxBxH)mm	10000X2990X3200 (Overall ht. Top of boom)

ENGINE	Make & Model	BEML BS6D105-1		
	6 inline, Diesel, 4 stroke, Turbocharged, Water Cooled			
	Flywheel Power	110kW(148HP) @ 2000rpm		
HYDRAULIC SYSTEM	Two mode system			
HYDRAULIC PUMP	2nos variable Displacement axial piston pump			
RELIEF PRESSURE	Boom/Arm/Bucket	Swing	Travel	Pilot
(kg/cm²)	320	297	320	30-36
HYD. CYLINDER	Boom	Arm		Bucket
(Nos X Dia X length)	2X130X1234	140X1628		130X989
TRAVEL SPEED	3.0km/hr	Swing Speed : 13rpm		
DRIVE TYPE	Hydrostatic with two stage planetary reduction			
UNDERCARRIAGE	Track Length	Track Gauge	Shoe Width & Nos	Draw bar pull
	3445 mm	2380 mm	610mm, 47 nos Each side	16145kg
STANDARD EQPT	Boom	Arm	Bucket	
	5850 mm	2500 mm	1.0cum (backhoe)	
MAX WORK RANGE	Dig ht	Dump ht	Dig reach	Dig Depth
(mm)	8970	6200	9510	6170
FORCES (kN)	Dig Force: 125		Arm Force: 120	
WORK ATTACHMENT	Feather touch joystick pilot controls with accumulator system			
OPTIONAL	Arms(m)	Long(3.045), Extra long(3.5), Short(2.0)		
	Buckets(m³)	Clamshell(0.6 & 1.2) Trapezoidal (0.5), Slope finishing (0.35)		
		Ripper (0.56), Super long (0.64 & 0.44), Light duty (1.14 & 1.26)		
	Others:	Single shank ripper, Three shank ripper, Hydraulic rock breaker,		
		Track shoes 500, 710 & 810, A/C, Heater, High rise cabin,		
		Front windshield Guard, Superlong fronts (for 12.2 m & 18.3 m reach)		



Operating mass (Standard equipment)	7500kg
Fuel tank refill capacity	122ltrs
Overall Dimension (LxBxH)mm	5850X 2280X 2615

ENGINE	Model & Type	KOEL 4R 1040NA		
	4 inline, Diesel, 4 stroke, Naturally Aspirated, Water Cooled			
	Flywheel Power	41.9kW(57HP) @ 2000rpm		
HYDRAULIC SYSTEM	CLSS	Capacity: 100ltrs		
HYDRAULIC PUMP	Variable displacement axial piston pump + gear pump			
RELIEF PRESSURE (kg/cm ²)	Boom/Arm/Bucket	Swing	Travel	
	250	130	250	
HYD. CYLINDER	Boom	Arm	Bucket	
(Dia X Length)	120X830	100X885	90X685	
TRAVEL SPEED	4.4kmph	Swing Speed : 11.8rpm		
DRIVE TYPE	Two speed hydrostatic with axial piston motor			
UNDERCARRIAGE	Track Length	Gauge	Shoe Width & Nos	Draw bar pull
	2060	1700	450mm, 40nos Each side	5680 kg
STANDARD EQUIPMENT	Boom	Arm	Bucket	
	3710	1650	0.3cum (backhoe)	
MAX WORK RANGE	Dig ht	Dump ht	Dig reach	Dig Depth
(mm)	7120	4995	6225	4090
FORCES (kN)	Dig Force: 48.3		Arm Force: 37.4	
WORK ATTACHMENT	Feather touch hand operated joystick pilot controls with accumulator system			
OPTIONAL	Hydraulic rock breaker, Front cab guard			

Attachments

BE75
With Rock Breaker



BE220G
With Clamshell Bucket



BE220G
With Highrise Cabin
for all round visibility



BE220G
With Short boom
for tunnel Applications



BE220G
With Longreach boom & arm
L: 12.2m & 18.3m





Equipment	BL30-1
Operating Mass (Standard equipment)	18000 kg
Gross Power	165 kW (225 hp)@ 2300 rpm
Overall Dimension (LxBxH)mm	8000X3086X3458
Bucket Capacity	3.1 cum

ENGINE	Make & Type		Ashok Leyland BS- IV	
	6 inline, Diesel, 4 stroke, Turbocharged, Intercooled CRS engine			
	Gross Power		165 kW (225 hp) @ 2300rpm	
TRANSMISSION	Powershift		4F / 3R	
TRAVEL SPEED	First	Second	Third	Fourth
F/R	6/7	12/13	24/25	37/-
HYD. SYSTEM	Pump Cap. 240ℓ/min		RELIEF PRESSURE : 230 bar	
HYD. CYLINDER	Lift		Dump	Steering
(DiaXlength)	2X140X769		1X200X485	2X90X442
TYRES	23.5X25-20 PR,Tubeless			
FUEL TANK	300 lts			
LOADER	Dump clearance	Operating height	Dig depth	Dump angle
	2782	5430	385	45°
ARTICULATION	38 +/- 2 deg Each side			
	Traction : 175 kN		Breakout : 198 kN	
CABIN	Steel Cabin, spacious			
	with 2 doors and safety glass all around			
OPTIONAL	Bucket 2, 2.5, 2.7and 3.4 cum capacities			
	(based on density of material handled)			



Equipment		BL200-1		
Operating Mass (Standard equipment)		10500 kg		
Overall Dimension (LxBxH) mm		6975 X 2438 X 3325		
Bucket Capacity		1.7 cum		
ENGINE	Make & Type	Ashok Leyland-BSIV		
	6 inline, Diesel, 4 stroke, Turbocharged, Water Cooled, direct injection			
	Gross Power	99kW(133HP) @ 2300rpm		
TRANSMISSION	Powershift	2F / 1R		
TRAVEL SPEED	First	Second		
F/R	6/22	36		
HYD. SYSTEM	Pump Cap. 150ℓ/min	RELIEF PRESSURE : 210 bar		
HYD. CYLINDER	Lift	Dump	Steering	
(DiaXlength)	2X120X700	1X130X474	2X70X460	
TYRES	14X25-20PR (L3) Tubeless			
FUEL TANK	170 ℓ			
LOADER	Dump clearance	Operating height	Dig depth	Dump angle
	2800 (upto cutting edge)	4775	250	45°
ARTICULATION	38° Each side			
	Traction : 9880 kg	Breakout : 9900 kg		
CABIN	Steel Cabin, spacious, comfortable			
	with 2 doors and safety glass all around			
OPTIONAL	Bucket 1.2, 1.5, 2.3, 2.5, 3.0 and 3.2 cum capacities			
	(based on density of material handled)			



EQUIPMENT	BG405A
OPERATING MASS	11500 kg
ENGINE	ASHOK LEYLAND BSIV
GROSS POWER	98KW(133 hp)@2300rpm
FRAME	Articulated
TRANSMISSION	ZF
TRAVEL SPEEDs	6F/3R
SPEED (kmph) max (F/R)	48 / 32
min (F/R)	5.6 / 5.9
DRAW BAR PULL (kg)	6256
STEERING ANGLE	40° each side
TURNING RADIUS(mm)	6500
MOULD BOARD (L x H x T), mm	2970 X 540 X 20
BLADE max lift above	400 mm
max drop below	400 mm
Max shoulder reach(L/R)	1600 / 1650 mm
Max bank cut angle	90°
TYRES	11.00 X 20 - 18PR
BRAKES	Foot operated, Wet multiple disc
	Accumulator assisted hyd. disc.
OVERALL DIM. (LWH),mm	7835X2000 (Tyre end to end) x 3400



EQUIPMENT	BG605A	BG605I
OPERATING MASS	15,500 kg	13,630kg
ENGINE	ASHOK LEYLAND- BSIV	ASHOK LEYLAND- BSIV
GROSS POWER	118 kW @2200 rpm	118 kW @2200 rpm
FRAME	Articulated	Rigid
TRANSMISSION	Power Shift	Power Shift
TRAVEL SPEEDs	6F/3R	6F/3R
SPEED (kmph) max (F/R)	48.5/ 48.2	48.5/ 48.2
min (F/R)	7.2 / 7.6	7.2 / 7.6
DRAW BAR PULL (kg)	7500	7210
STEERING ANGLE	40° each side	40° each side
TURNING RADIUS (mm)	7400	11000
MOULD BOARD (L x H x T), mm	3665 X 540 X 20	3665 X 540 X 20
CUTTING EDGE (L x H x T), mm	914 X 152 X 27	914 X 152 X 27
BLADE max lift above,mm	400	400
max drop below,mm	500	570
Max shoulder reach(L/R),mm	1670/1955	1670/1955
Max bank cut angle	90°	90°
TYRES	14.00 X 24 - 16PR(Tube Type)	14.00 X 24 - 16PR(Tube Type)
	Traction type	Traction type
BRAKES	Foot operated, Oil disc brakes	Foot operated, Shoe type
	Air actuated on 4 rear wheels	Air over Hydraulic Brakes actuated on all 4 rear wheels.
OVERALL DIM. (L x W x H), mm	8980 x 2524 (Tyre end to end) x 3679	9060x2375 (Tyre end to end) x3420
OPTIONAL: BG605A BG605I	Scarifier, Front Dozer Blade, ROPS Cabin, Tyre Inflation Kit, Ripper	

AFTER SALES SERVICE

BEML Limited has nationwide marketing network for sales and service of Mining & Construction Equipment and parts spread all over India. Apart from the domestic market, BEML has presence in more than 68 countries covering Asia, Africa, Middle East, SAARC, Latin America and other neighboring countries. A dedicated International Business Division is working tirelessly to cater to the need of the global customers.

APPLICATION ENGINEERING

BEML offers application engineering to its customers, which includes preparation of pre feasibility reports, equipment selection studies, total fleet optimization solutions and customization of equipment.

MAINTENANCE CONTRACTS

BEML offers various maintenance contracts such as MARC, AMC/FMC, ASC, Guaranteed Spares Contract, Cost Cap Contract to cross section of customers who derive the following advantages:

- Improved Reliability
- Higher Equipment Availability
- Pre-determined Expenditure over the Contract Period
- Reduces unscheduled breakdown
- Availability of expertise at site

MAINTENANCE AND REPAIR CONTRACT (MARC)

It is recommended for green field projects. BEML shall supply parts and maintain the equipment duly conducting running Repairs, schedule maintenance, major repairs and overhauls during the contract period. Predictive maintenance for major aggregates shall be carried out, as required.

ANNUAL MAINTENANCE CONTRACT (AMC) / FULL MAINTENANCE CONTRACT (FMC)

It is recommended for the existing/running projects. BEML shall supply parts and supervise maintenance & repair of equipment. BEML staff will supplement the Customer by providing expertise.

ANNUAL SERVICE CONTRACTS (ASC)

BEML has been offering Annual Service Contracts, in which customers can avail specific number of Service Engineer's visit each year, depending upon the fleet of equipment. These visits can be planned on specific dates to suit the customer requirement to ensure better performance and availability of equipment.

In addition to the above, BEML also offers Guaranteed Spares contract & Cost Cap contracts to suit to the specific requirement of customers.

REHABILITATION

BEML Service network has been executing a variety of flexible, custom-made Rehabilitation of equipment, after their reliability starts deteriorating with lesser productive hours or at the end of first-life when most of the components need overhaul. As required by customers varieties of rehabilitation programs are in vogue such as mid-life overhaul, reliability-improvement-repairs, major & minor rehabilitation, Extended life program etc. BEML offers Rehabilitation Services either at Customer's site or at BEML's Service Centres as per the requirement of customers.

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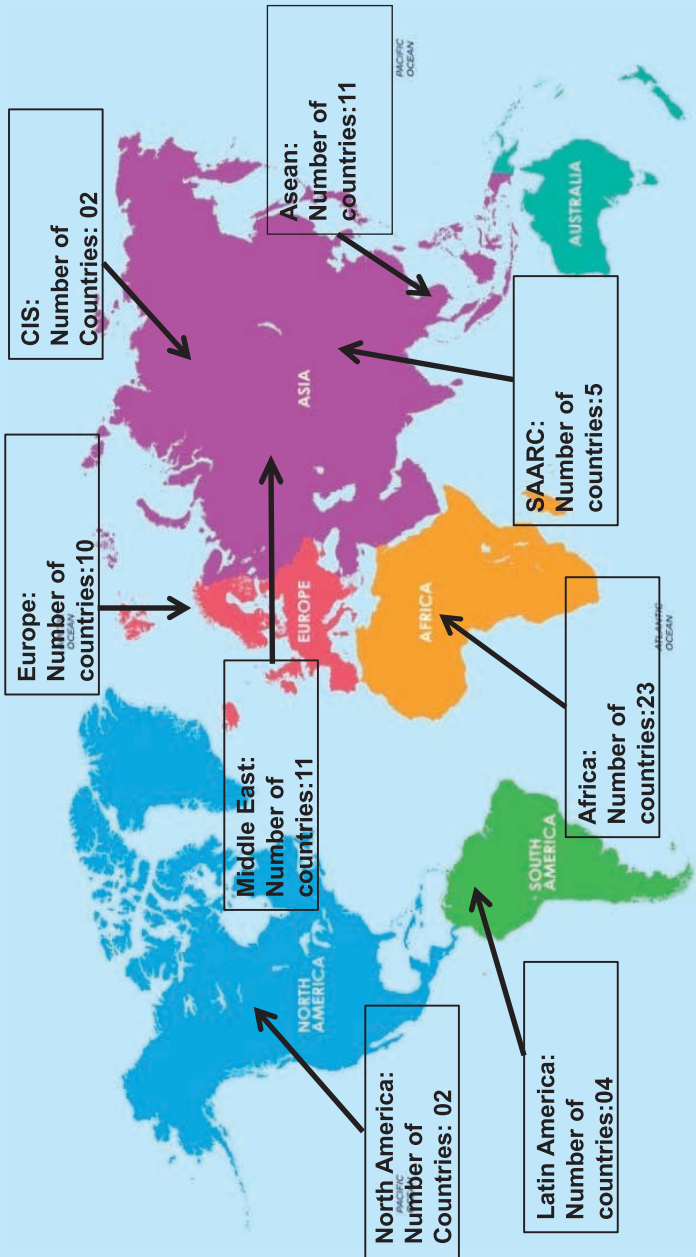
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BEML's Global Presence



- Exported over 1200 equipment to 68 countries
- Defence Products Exported to Israel, Suriname, Honduras & Bhutan.
- Railway Products exported to Sri Lanka and Bangladesh
- Mining & Construction products across the globe

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-  Corporate Office
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-  District Offices
-  Activity Centres
-  International Business Division

- ★ Engineers at Pit Head
- ★ Mother depots at KGF and Mysore
- ★ Parts Depot at Regional and District Offices
- ★ Service Centers at Delhi, Bilaspur, Kolkata, Singrauli, Hyderabad

2020