

BU4F-LOCO

4 TON LOCOMOTIVE (FLP)



Salient Features:

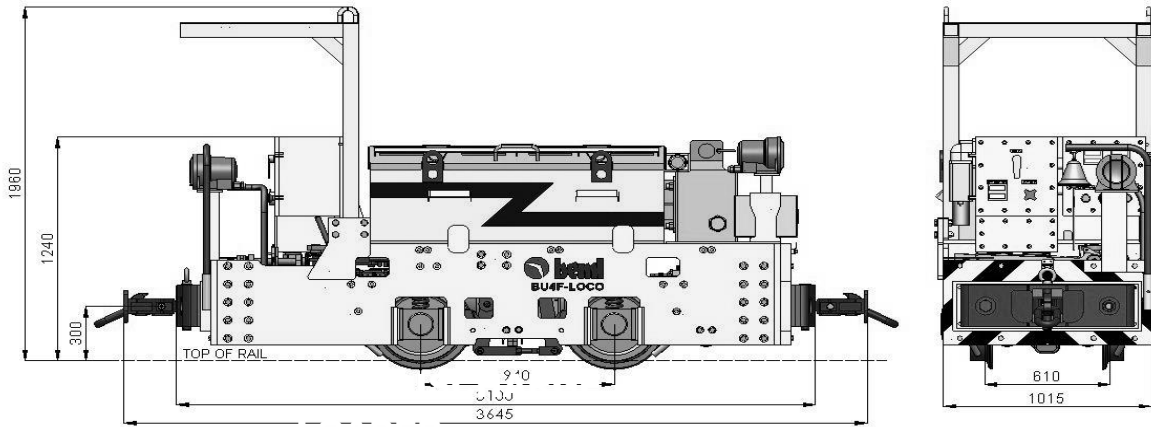
- Chassis is designed with structural steel materials to provide maximum durability and excellent service life and stability
- Axles and Wheels are from reputed source made out of cast steel machined and mounted with anti-friction roller bearings housed in a steel cast bearing housing with grease lubrication.
- Simplified service and maintenance features provide easy access to service locations allowing maintenance to be done quickly and efficiently.
- Effective leg operated braking system through linkage mechanism.
- Flame proof DC series traction motor as prime mover, DGMS approved Flameproof electrical control system



BU4F-LOCO

Operating weight : 6000 kg
Trailing Load : 16800 kg
Rail Gauge : 610 mm
Rated Voltage : 80 VDC

SPECIFICATIONS



PRIME MOVER

Type Feature Rating Cooling & IP Conformance	Bi-Directional DC Series Traction Motor – 2 no. Flame Leakage Protected (FLP) 80V DC, 11 HP @ 940 RPM Self-Cooled, IP55 rated IS/IEC 60079-1:2007 & IS 4691: 1985 suitable for use in Degree-III Gassy underground coal mines (Gas Group-1 Atmosphere)
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WHEEL & AXLE

Wheel	Four Cast wheel of high strength steel
Axle	Worm Gear box integrated with axle
Bearings	Heavy duty ball bearings
Suspension	Recoil spring suspension on both axles



BATTERY BANK

Source	80V, 305Ah (C-2 rated) Battery Bank
Enclosure	MS box with special (FRP) coating on inner surface



BRAKE

Type	Foot operated service brake interlocked with parking brake
Braking	Four cast iron brake blocks with substantial braking surface acting on rail wheels



DRIVE CONTROL

Type Features	PWM Type Drive, 80V DC Interlocks with Brake switch & Deadman switch Controller inhibition on Earth Leakage
Enclosure	FLP & IP65, DGMS approved



SANDING SYSTEM

Type Special feature	Hand lever operated sanding system. Four interconnected sandboxes operated simultaneously to prevent wheel slip
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OPERATOR CONTROLS

Power-ON Direction select Throttle Panel meters	Key-switch Forward-OFF-Reverse Pot-box knob <ul style="list-style-type: none"> Battery EMF and Current Individual Motor Voltage & Current Battery Discharge Indicator-cum-Hour Meter
Indicators	Brake Applied/ Released, Foot-pedal Pressed/ Released, ELCB tripped, E-stop pressed
Emergency	Resettable Emergency Stop switch
Enclosure & Conformance	FLP & IP65, DGMS Approved IS/IEC 60079-1: 2007, IS/IEC 60079-0: 2004 and IS 12063: 1987 (IEC 60529:1989)



SAFETY FEATURES

Dead-man s/w Protections	FLP Foot pedal switch with spring retention Overload, Short Circuit, Emergency Stop, ELCB, Pre-start Alarm
Audio-Visual Alarm (Forward & Reverse)	IS A-V Alarm as per DGMS directives conforming to IS/IEC 60079-11:2006 IS/IEC 60079-0:2004 and IS12063:1987 (IEC 60529:1989)
FLP Components	<ul style="list-style-type: none"> Battery Isolator Box Battery Connectors (Plug & Socket) Panel Enclosure Wire Harness with FLP cables conforming to IS14494:1998 Head Lamp with integrated Tail Lamp
Overhead Protection	FOPS Canopy



DIMENSNSIONS

Overall Length	3645 mm
Overall Width	1015 mm
Overall Height	1960 mm (with FOPS) 1240 mm (without FOPS)
Wheel Base	940 mm
Track gauge	610 mm
Overall Weight	6 Metric Ton



OPTIONAL

Nomenclature	Battery Charger
Input	3-phase, 550V AC, 50 Hz available at mines
Output	Suitable for 80V DC, 305Ah, C2 rated Battery
Protections	<ul style="list-style-type: none"> Overcharging Undercharging Short Circuit Earth Leakage

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	T +91 97413 51588 E-mail: mg@beml.co.in
Karnataka	
Bilaspur 1-A, Industrial Area, Sector-C, Sirgitti, Bilaspur - 495 223.	T + 91 7752 252745, 252598 F + 91 7752 252065 E-mail: mv@beml.co.in
Chhattisgarh	
Neyveli F-4, Dr. Rajendraprasad Road, Block-27, Neyveli, - 607 803	T/F + 91 4142 268517 T + 91 4142 265517 / 229392 E-mail: ma@beml.co.in
Tamil Nadu	
Dhanbad Mouza - Kargalo, Amaghata, Govindpur, KG Ashram Post, Dhanbad Jharkhand – 828 109	T + 91 94711 92023 E-mail: mf@beml.co.in
Hyderabad 3-6-114, Street No.18, Himayat Nagar, Hyderabad - 500 029	T + 91 40 2322 7032 / 94907 93117 F + 91 40 23221794 E-mail: m.hyderabad@beml.co.in
Telangana	
Kolkata 35/1A, Taratala Road, Kolkata - 700 068.	T + 91 33 2401 5286 / 87 / 98 / 99 F + 91 33 2401 5288 E-mail: m.kolkata@beml.co.in
West Bengal	
Mumbai 32A, Bazar Road, Near Jain Mandir, Bandra (West), Mumbai, Maharashtra - 400 050	T + 91 22 26431875 / 26435875 F + 91 22 26423928 E-mail: m.mumbai@beml.co.in
Nagpur No 33, Cement Road, Shivraj 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, Barisatu Road, Ranchi, Jharkhand - 834 009	T + 91 651 2540710 / 94311 08531 E-mail: mr@beml.co.in
Sambalpur BEML Complex, NH-6, Panchagachhia, Baraipalli Post, Sambalpur 768 006	T + 91 663 2521604 / 2521389 E-mail: mb@beml.co.in
Odisha	
Singrauli PB No. 5, Jhingurdha Colliery, Singrauli - 486 889 Madhya Pradesh.	T + 91 7805 272668 / 272318 F + 91 7805 272282 E-mail: m.singrauli@beml.co.in

ACTIVITY CENTRES

Bhopal Ground Floor, Hall No. 1, Chitrod Complex, Zone-1, Maharajapratap 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 / 77968 87178
Ranagar C/o. Toborn Riba, H-Sector, Pajum Itanagar - 791 113, Assam	T + 91 94029 34205 / 88372 15852
Kochi No. 35/2/22, Chittoor Road, Ernakulam South, Kochi - 682 016	T + 91 484 2375138 E-mail: m.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: m.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: m.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: mmb@beml.co.in
Bhubaneswar 252/A, Lewis Road Bhubaneswar - 751 014	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: m.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: m.guwahati@beml.co.in
Hospet No.1431, Manjunatha Complex, Bhagat Singh Nagar, Opp. KSSIDC Ind. Estate, Darn Road, Hospet - 583 203, Karnataka	T/F + 91 8394 230172 E-mail: m.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: mj@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: m.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, Godavankhani - 505 209, Peddapalli Dist, Telangana	T + 91 8728 248299 / 94408 58441 E-mail: mhn@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, Vidyannagar China 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

BU4F - LOCO (4 Ton Locomotive – FLP)