



NOTICE OF INVITATION FOR EMPANELMENT OF MAKES FOR MAJOR ELECTRICAL ITEMS 2021-22

1. DMRC's Electrical Project Wing intends to update the list of approved makes for various major electrical items for its upcoming projects for the categories listed in **Annexure – I**.
2. For inclusion in the list of approved makes, applications may be submitted in the enclosed format in **soft copy** along with all necessary & relevant supporting documents. The key dates are as follows: -

Notice of Invitation	25.10.2021
Submission start date	02.11.2021
Online Meeting with prospective manufacturers	09.11.2021
Last date for submission of queries	15.11.2021
Last date of Reply to Queries and Addendum (if any)	23.11.2021
Submission end date	07.12.2021
Authority for seeking any clarifications	General Manager / Electrical (Planning) Delhi Metro Rail Corporation Ltd., 7 th Floor, B-Wing, Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi –110001

(Please note that only written request from the applicant and written response / clarification from DMRC will be admissible / taken into consideration.)

Please note, for the makes already included in the list available on DMRC's Website (www.delhimetrorail.com) need not to submit their application again.

3. Soft copies may be uploaded on e-portal: - <https://eprocure.gov.in> "
4. Submission of documents on piece-meal basis, will not be considered. Therefore, the applicants are requested to submit the complete applications along with relevant Annexures in one go.



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5. In case the make / manufacturer intends to get approved for more than one item, then separate application is to be submitted for each individual item mentioned in Annexure – I.
6. This empanelment is being done only for Original Equipment Manufacturers (OEM) however dealers / license partners may apply for empanelment of OEM with duly notarized valid power of attorney in favour of the applicant from the authorized representative of OEM along with relevant Board Resolution. But if OEM also applies for empanelment of the same item(s) than application(s) of dealers / license partners shall not be considered and rejected summarily.
7. The application(s) and all the attachments must be in English language only. If document(s) in any other language are being submitted then it must be accompanied by a English translation from a certified translator only. In case, English translation is not submitted, the document will not be considered for evaluation.
8. The relevant standards specified against each item in Annexure-I are as per the DMRC's application requirements at site and the documents submitted with prescribed application format will be examined for compliance with respect to the relevant standard mentioned in the list at Annexure – I.
9. Applicants are requested to provide index on top of their submittal. The document must be serially page numbered and cross-references of the Annexures / enclosures may be mentioned in the application format to avoid any ambiguity during the evaluation of the submittal.
10. Queries (if any) should be sent on email "electrical.make@dmrc.org" only, as per stipulated time mentioned above, thereafter No query will be entertained. In case any clarification is required based on the query, then DMRC will issue the same accordingly.
11. Request to participate in online meeting scheduled at 1430 Hrs of 09.11.2021, may be sent on email electrical.make@dmrc.org accordingly meeting link will be shared. Request should be sent up to 1600 Hrs of 08.11.2021. It is to be noted that the request is sent only through the email l'd link with eprocurement portal.
12. Submission of application does not automatically guarantee registration in DMRC.
13. DMRC reserves the right to delete, modify or rename any of the forms, categories, conditions, procedures etc. given in the registration documents.



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14. DMRC reserves the right to accept or reject any or all applications without assigning any reasons thereof.

General Manager / Electrical (Planning)
Delhi Metro Rail Corporation Ltd.



Annexure-I

S. No.	Items	Reference Standard	Approved Manufacturers
1	33 kV, single core, Aluminium/Copper conductor, PVC sheathed, XLPE Insulated, 300/400sqmm Power Cables	IEC-60502-2 (For Insulation FRLS & FRLSZH) IEC 60228 (For conductor) & DMES- T/0018/ DMRC-E-TR-CABLE-2	1. ILJIN, 2. Phelps Dodge, 3. Universal, 4. Sterlite, 5. KEI Industries Ltd., 6. Havells India Ltd., 7. APAR Industries Ltd.
2	25 kV, single core, Aluminium/Copper conductor, PVC sheathed, XLPE Insulated, 240/400sqmm Power Cables	IEC 60228 (For conductor), IEC 60502-2 (For Insulation FRLS & FRLSZH), IEC 60840 (For Testing) & DMES- T/0019/ DMRC-E-TR- CABLE-3	1. ILJIN, 2. Phelps Dodge, 3. Universal, 4. Sterlite, 5. KEI Industries Ltd., 6. APAR Industries Ltd.
3	3.3 kV return cable Aluminium conductor, PVC sheathed, XLPE insulatated, 400 sqmm Return cable	IEC 60228 (For conductor), IEC 60502-1(For Insulation FRLS & FRLSZH) & DMES- T/0020/ DMRC-E-TR- CABLE-3	1. ILJIN, 2. Phelps Dodge, 3. Universal, 4. Sterlite, 5. KEI Industries Ltd., 6. Havells India Ltd., 7. APAR Industries Ltd.
4	33 kV STJ/Cable Terminations	IS:13573-Part-2, 2011 IEC-60502-2 (For Insulation FRLS & FRLSZH), IEC 60228 (For conductor), DMES- T/0018/ DMRC-E-TR-CABLE-2	1. 3M, 2. Behr Bircher Cellpack BBC India Pvt. Ltd. 3. Elsewedy Sedco, Egypt. 4. Raychem RPG Pvt Ltd.
5	25 kV STJ/Cable Terminations	IEC-60840, IEC 60228 (For conductor),	1. 3M, 2. Behr Bircher Cell Pack BBC



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		IEC 60502-2 (For Insulation FRLS & FRLSZH), . IEC 60840 (For Testing), DMES- T/0019/ DMRC-E-TR- CABLE-3	India Pvt. Ltd (NOIDA). 3. Raychem RPG Pvt. Ltd.
6	3.3kV STJ/Cable Terminations	IS:13573-Part2-2011 IEC 60228(For conductor), IEC 60502-1, DMES- T/0020/ DMRC-E-TR- CABLE-3	1. 3M, 2. Behr Bircher Cellpack BBC India Pvt. Ltd. 3. Elsewedy Sedco, Egypt. 4. Raychem RPG Pvt Ltd.
7	LA (Composite Insulation) for 33 kV panel	IEC- 60099-4, Discharge class-3, Rated Voltage-36 kV	1. Raychem RPG.
8	LA (composite Insulation) for 25 kV System	RDSO Specification No. ETI/PSI/71 (1/87) with Composite Insulation and minimum creepage 1600mm, IEC- 60099-4, Discharge Class-3, Rated Voltage-42 kV	1. Raychem RPG
9	33 kV, Dry Cast resin Inductive PT	IEC-61869-3, Accuracy class for protection-3P, Accuracy class for measurement-0.5	1. Narayna, 2. ECS
10	33 kV, Dry Cast resin Inductive CT	IEC-61869-2, Core-1:- 5P15 Protection Class, Core-2:- PS Protection Class, Core-3:- 0.5, M5 Measurement class	1. Narayna, 2. ECS
11	33kV/415V, 200kVA-3150kVA, Dry cast resin Auxiliary Transformers	DMES-T0005/DMRC-E-TR-TRANSF-05 & IEC-60076-11, IS:11171 & IS 2026	1. ABB, 2. Elettromeccnica Italy, 3. Raychem
12	33 kV HT Panel with Vacuum Circuit	IEC-62271-1 & 62271-200	1. ABB,



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	Breaker and associated protection system.		2. Siemens 3. Schneider
13	Float Cum Boost Battery Charger (Vdc=110V)	IEC 60146	1. Statcon Energiaa India, 2. HBL Hyderabad, 3. Amar Raja Battries India. 4. AMCO (For RSS), 5. CHABI (For RSS), 6. Chloride Power Systems & Solution Ltd.
14	Ni Cd, Battery Bank	IEC 60622/IEC 60623.	1. HBL Hyderabad, 2. AMCO
15	25kV PTFE type Short Neutral Section	IEC 60507:71-1, 71-2: 1109 TI/SPC/OHE/SNS/0000: 2000 Service life shall not be less than 4 million pantograph passes.	1. Arther Flurry
16	107/150sqmm Contact Wire (Cu-Ag /Cu ETP)	ETI/OHE/76(6/97) with AC slip 1,3,4,5&6 (Cu ETP, for Depot), EN 50149 (Cu-Ag, for main line)	1. Chandra Metals, 2. Lamifil Belgium, 3. Isodart, Germany
17	65/120sqmm Messenger Wire (Cu-Mg/Cu-Cd)	TI/SPC/OHE/INSCAT/0000 DIN 48201 Part-2 (Cu-Mg Bronze)	1. Chandra Metals, 2. Vee Kay, 3. Lamifil Belgium, 4. Isodart, Germany
18	93.3sqmm ACSR/240sqmm AAC for RC, OPC and BEC	IS 398 Part-2	1. Hindustan Urban Infrastructure Ltd, 2. Shashi Cables Limited. 3. Dynamic Cable Ltd.
19	Section Insulators in Depot	ETI/OHE/27(8/84)	1. Kamgar.



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20	MS CANTILEVER for Tramway type 25kV OHE	RDSO Specifications	1. Indus Tube.
21	Modular type 25kV Aluminium CANTILEVER for main line	-	1. Siemens (Germany), 2. RIBE (France), 3. PPS International
22	Mast & Fittings for 25kV OHE	ETI/OHE/13	1. RDSO sources.
23	Remote Terminal Units (RAM 256MB)	Complying the protocols IEC 60870 – 5 – 103 and IEC 61850,	1. ABB, 2. Synergy
24	33 kV GIS Panel	IEC 62271-1, IEC 62271-100, IEC 62271-103, IEC 62271-200, IEC 60376, IEC 61869-3, IEC 61869-2, IEC 60028, IEC 60721-2-5	1. Siemens, 2. Schneider
25	25 kV, Dry Cast resin Inductive PT	IEC-61869-3 Accuracy Class-1 for Protection	1. Sadtem (France), 2. ARTECHE (For RSS)
26	25 kV, Dry Cast resin Inductive CT	IEC-61869-2 Core-1 5P10 Protection Class, Core-2 5P10 Protection Class	1. Sadtem (France), 2. ARTECHE (For RSS)
27	25 kV Isolators motorised/manual with composite insulators of 1600 mm creepage	RDSO specs ETI/OHE/16(1/94) 250 kVp BIL, 1600mm Creepage insulators and 52 kV insulation withstand voltage	
28	25 kV, magnetic actuated/mechanical actuated Pole mounted CB/BM	IEC-62271-1 & 62271-100	1. Alind, 2. Megawin
29	25 kV, 1600mm CD, Composite Post	DMES-0030/DMRC-E-TR-	1. Raychem RPG.



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	INSULATOR	Insulator-1	
30	25kV, 1600mm CD Composite Operating Rod INSULATOR	DMES-0030/DMRC-E-TR-Insulator-1	1. Raychem RPG.
31	25kV, 1600mm minimum CD, Composite bracket and stay insulators for Aluminium Cantilevers	DMES-0030/DMRC-E-TR-Insulator-1	1. Deccan Enterprise Hyderabad.
32	220/132/66kV EHV Power Cable	IEC 60840, EN 60811, IEC 60228, IEC 60502	1. Iljin, 2. Universal, 3. Sterlite (3 Core, 66kV), 4. KEI Industries Ltd., 5. Sterlite Power Transmission Ltd ⁽¹⁾ , 6. LS Cable India Pvt Ltd ⁽²⁾ .
33	220/132/66kV EHV Power Cable Termination & Straight Though Joint	IEC60840-2004, IEC62067	1. Iljin
34	66 kV Gas Insulated Switchgear (GIS)	IEC 62271-1, IEC 62271-100, 62271-203 IEC-61869, IEC 60186,	1. ABB, 2. Siemens, 3. Areva
35	25 kV Gas Insulated Switchgear (GIS)	IEC 62271-1, IEC 62271-100, 62271-203 IEC-61869, IEC 60186, IEC 60099-4	1. Schneider, 2. Siemens, 3. ALSTOM
36	220/132/66kV//33kV Auxiliary Mains	IEC 60076, IEC 60214	1. EMCO, 2. ALSTOM,



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	Transformer (AT)		3. T&R, 4. CGL, 5. TOSHIBA, 6. BHEL, 7. ABB
37	220/132/66kV//27.5kV Traction Transformer (TT)	IEC 60076, 60137, 60296 IEC 60214	1. ABB, 2. CGL, 3. EMCO
38	220kV Current Transformer (CT)	IEC-61869,	1. ABB (Oil, SF6), 2. Siemens (SF6)
39	132kV Current Transformer (CT)	IEC-61869,	1. ABB (SF6), 2. CGL (Oil), 3. MEHRU (Oil).
40	66kV Current Transformer (CT)	IEC-61869,	1. ABB (SF6), 2. MEHRU (Oil), 3. CHINT (SF6).
41	220kV Capacitive Voltage Transformer (CVT)	IEC 60186	1. ABB
42	132kV Capacitive Voltage Transformer (CVT)	IEC 60186	
43	66kV Capacitive Voltage Transformer (CVT)	IEC 60186	1. ABB, 2. Siemens
44	220kV Lightning Arrestors (Composite type) (LA)	IEC 60099-4	1. RAYCHEM
45	132kV Lightning Arrestors (Composite type) (LA)	IEC 60099-4	1. RAYCHEM



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46	66kV Lightning Arrestors (Composite type) (LA)	IEC 60099-4	1. RAYCHEM
47	220kV Circuit Breaker (CB)	IEC 62271-1, IEC 62271-100, 62271-203	1. ABB, 2. CGL
48	132kV Circuit Breaker (CB)	IEC 62271-1, IEC 62271-100, 62271-203	1. ABB, 2. CGL
49	66kV Circuit Breaker (CB)	IEC 62271-1, IEC 62271-100, 62271-203	1. ABB, 2. CGL
50	220/132/66kV ISOLATOR	IEC 62271-1, 62271-102, 62271-203	1. S&S
51	RELAYS (Bay Controller unit and Protection relay on IEC 61850 protocol)	IEC 61850, IEC-60255, IEC-61000-4, IEC 60571, IEC 60068	1. ABB, 2. Schneider, 3. Siemens
52	Sub-Station Automation (SAS) on IEC 61850 protocol	IEC 61850	1. ABB, 2. Schneider, 3. Siemens
53	NGR	IEEE-32, IEC-60044-1, IEC-60099-4, IEC-62271-102, IEC 62241-102	1. National Switchgear, 2. Resitech
54	Electrical Panels/ Distribution Boards	IEC 61439, IEC61641 with switchgear as per IEC 60947	1. L&T-TERA, 2. ABB-Elsteel, 3. Schneider-Blockset, 4. Rittal India Pvt. Ltd (With L&T Switchgear), 5. L&T Electrical & Automation-Ti, 6. Legrand (Novateur Electrical and Digital System



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			Pvt Ltd)-XL3, 7. ABB India Ltd-ArTuk ⁽³⁾ , 8. Siemens Ltd-Siepan ⁽³⁾
55	Fire Fighting Pumps (Fire Services)	NFPA 20	1. Armstrong, 2. Wilo
56	Addressable Fire Detection System	NFPA 72	1. Notifier (Honey Well), 2. Simplex, 3. Siemens Ltd.
57	Clean agent based Fire Suppression System for Transformer and Panels	NFPA 2001	1. FIRETRACE, 2. Rotarex, 3. SEVO
58	LT Cu Cables & Wires (For Underground Work): LSZH Type armoured cable. FS Type armoured cable. LSZH and FS Wires. BMS Control cables 500/700 V.	BS 6724 BS 7846 BS/EN50525-3-41 and BS 6387. BS/EN50525-3-41 & BS/EN 50288-7	1. Polycab, 2. Ducab, 3. Bonton (Wires & Control cables), 4. KEI, 5. Paramount Cables (for LT Underground Power Cables), 6. Havells India Ltd (for LT Underground Power Cables)
59	UPS (60 KVA and above)	IEC 62040/EN 62040	1. Riello (PCI), 2. APC Schneider, 3. Socomec Innovative Power Solution Pvt Ltd., 4. Fuji Electric Consul Neowatt Pvt Ltd. 5. Vertiv Energy Pvt. Ltd, 6. Numeric UPS (Novateur Electrical and Digital System



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			Pvt Ltd.)
60	Battery (NiCd) for UPS	IEC 60623/ IS 10918	1. HBL, 2. SAFT
61	LED Light Fixtures (Internal)	BIS certified, complying L-70, B-50 standards	1. Philips, 2. Crompton, 3. Wipro*(For Elevated), 4. Halonix Technologies Pvt Ltd. 5. Havells India Ltd. 6. Bajaj Electricals Ltd.
62	LED Light Fixtures (External)	BIS certified, complying L-70, B-50 standards	1. Philips, 2. Crompton, 3. Bajaj, 4. Wipro* (For Elevated), 5. Halonix Technologies Pvt Ltd., 6. Havells India Ltd.
63	Pipes for Fire Services (G.I. Pipes)	IS 1239/ IS 3589, Galvanization as per BS EN ISO 1461/ IS 4736	1. Jindal, 2. Tata
64	Water Treatment Plant (For reducing hardness of raw water)	IS: 8419	1. Thermax
65	Sewage Pumps Submerged open Impeller Non Clog Type, Seepage Pumps Submerged Semi Open Impeller.	BS EN ISO 9906/ BS EN ISO 5198, motor compliant to IEC BS/ EN 60034-1	2. Grundfoss
66	LT Bus duct (Sandwich type)	IEC-61439-1 & 6	1. C&S, 2. Henikwon (L&T),



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			<ol style="list-style-type: none">3. EAE Elektik,4. Advance Panels and Switchgear Pvt Ltd.,5. Legrand (Zucchini) (Novateur Electrical and Digital System Pvt Ltd),6. Schneider Electric India Pvt Ltd.
67	DG sets	ISO 8528, complying latest CPCB norms	<ol style="list-style-type: none">1. Sudhir,2. Sterling Wilson
68	Air- Conditioning System (VRF & Split)		<ol style="list-style-type: none">1. Blue star,2. LG,3. Daikin,4. Mitsubishi,5. Carrier Air-Conditioning & Refrigeration Pvt Ltd (Carrier Make),6. Carrier Air-Conditioning & Refrigeration Pvt Ltd (Toshiba)
69	FRLSH XLPE Cable	IS 7098	<ol style="list-style-type: none">1. Bonton,2. Cords cable,3. Havells,4. Polycab,5. KEI,6. Paragon Cable India. (Elektron),7. Special Cables Pvt. Ltd.,8. APAR Industries Ltd. (Unicab),9. SBEE Cable (India) Ltd.,10. Ravicab Cables Pvt. Ltd.,11. Gupta Power Infrastructure Ltd. (Rhino



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			Wires & Cables), 12. Gemscab Industries Ltd.
70	FRLSH PVC Wire FR Wire	IS 1554 IS 694	1. KEI, 2. Bonton, 3. Havells, 4. Polycab, 5. Paragon Cable India. (Elektron). 6. APAR Industries Ltd. (Unicab), 7. Ravicab Cables Pvt Ltd., 8. Gemscab Industries Ltd.
71	Water cooled SCREW/ Centrifugal Chillers	Performance as per AHRI Standards 550/ 590 or Eurovent Certified. Pressure vessels as per ASME sec VIII Div 1/ PED- 2014/ 68/ EU.	1. Trane, 2. York, 3. Dunhambush, 4. Carrier, 5. Climaveneta Climate Technologies Pvt. Ltd., 6. Daikin Air-Conditioning India Pvt Ltd., 7. Voltas Limited.
72	Air cooled SCREW Chillers	Performance as per AHRI Standards 550/ 590 or Eurovent Certified. Pressure vessels as per ASME sec VIII Div 1/ PED- 2014/ 68/ EU.	1. Carrier, 2. Climaveneta Climate Technologies Pvt. Ltd ⁽³⁾ , 3. Dainkin Air-Conditioning India Pvt Ltd ⁽³⁾ , 4. Voltas ⁽³⁾ , 5. Blue Star ⁽³⁾
73	Air cooled SCROLL Chillers	Performance as per AHRI Standards 550/ 590 or Eurovent Certified.	1. York, 2. Trane,



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74	ECS Pumps (Vertical Inline/Monoblock pump)	Standard HI1.6/ISO 9906	1. Grundfoss, 2. Xylem, 3. Armstrong Design Pvt Ltd.
75	ECS FANS (Axial Fan/Inline fan/Wall Mounted),	1. Performance as per AMCA 210 or ISO 5801. 2. Noise as per AMCA 300 or BS 848. 3. Motor as per IEC 60034.	1. Kruger, 2. System air, 3. Air Flow Pvt. Ltd. 4. Wolter Ventilators India Pvt Ltd.
76	Air Handling Unit	1. Casing EN 1886/ AHRI-1350. 2. Coil: EN 1216/AHRI-410. 3. Fan: AMCA 210 or ISO 5801 / AHRI 430. 4. Rating and the Performance of AHU as per whole: Eurovent Certified as per EN 13053/ AHRI Certified as per relevant standard.	1. System Air.
77	ECS Sound Attenuator	Tested as per BS EN ISO 7235 or ASTM E477.	1. Ruskin, 2. Systemair, 3. ETA
78	Fire Dampers (MFD/FLFD/FMD)	UL 555S & 555 and AMCA 500	1. Ruskin, 2. Green Heck with Belimo Actuator
79	Prefabricated Ducts	DW143 & DW-144	1. Rolastar, 2. Waves
80	VFD	UL 508c, IEC 61800 and Harmonics control as per IEEE 519	1. Fuji, 2. Danfoss, 3. L&T Electrical & Automation (for VFD Series Fx2000 and Hx2000)



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81	PLC based BMS for building services	<p>SIL-2 certified PLC based BMS for building services having redundant configuration at processor, communication and power supply level.</p> <p>PLC processor shall have the capability to support one of the following language structures:</p> <ul style="list-style-type: none">• Structured Text.• Subsequent Function Charts.• Ladder Logic.• Function Block.	<ol style="list-style-type: none">1. GE,2. Rockwell,3. Honeywell,4. Schneider Electric India Pvt Ltd.,5. Siemens Ltd.
82	Tunnel Ventilation Fan (TVF, TBF, TEF) with fire rating of 250°C for 2 Hrs.	<p>Performance as per AMCA 210/ ISO 5801.</p> <p>Noise as per BS EN 848/ ISO 13347/ ISO 37347/ DIN 45635.</p> <p>Vibration: ISO 14694/ ISO 10816.</p>	<ol style="list-style-type: none">1. Flaktwood,2. Witt and Sohn,3. Systemair,4. Green heck (For TEF only),5. Air Flow Pvt Ltd (for TEF only),6. Kruger Ventilation Industries Asia Co. Ltd. (Thailand),7. Witt India (for TEF only)⁽³⁾
83	TVS Sound Attenuator with fire rating of 250°C for 2 Hrs.	<p>Tested as per BS EN ISO 7235 or ASTM E477.</p> <p>Attenuator material tested as per & BS476 or ASTM E84.</p>	<ol style="list-style-type: none">1. Ruskin,2. ETA
84	Air Compressor	<ol style="list-style-type: none">1. Performance as per ISO 1217 or Equivalent.2. Air receiver as per ASME II or IS 2825.	<ol style="list-style-type: none">1. Oriental Pneumatic Company (for Chicago Pneumatic Compressor)⁽³⁾
85	Tunnel ventilation Damper with fire rating of 250°C for 2 Hrs.	<p>AMCA 500, 510 and UL 555.</p>	<ol style="list-style-type: none">1. Trox,2. AWV,3. Ruskin



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86	Tunnel ventilation Fan motors with fire rating of 250°C for 2 Hrs.	Standard Performance IEC 60034	1. WEG, 2. VEM
87	EOT Crane	IS 3177:1999, IS 807:1976/ DIN 15018, IS 3938:1979/ FEM 9811, IS 2266:1976/ FEM 1001, IS 4460:1967, BS 466, BS 2573, BS 5395, DIN 15018/ EN 13001/ EN 15011, DIN 15401, FEM 9.683, FEM 9.661, DIN 15020	1. DEMAG
88	High mast and street light pole	IS 2062/ IS 875 Part iii	1. Bajaj



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S. No.	Description	Application for Item 'aa' placed at Page No.	Application for Item 'bb' placed at Page No	Application for Item 'xx' placed at Page No
1	Annexure-II	From.....to....	From.....to....	From.....to....
2	Application Form	From.....to....	From.....to....	From.....to....
2(i)	A-General (Supporting Documents)	From.....to....	From.....to....	From.....to....
2(ii)	B-Company Profile & Experience of Vendor (Supporting Documents)	From.....to....	From.....to....	From.....to....
2(iii)	C-References / Details of Experience of providing proposed Make / Product in Last 10 Years. (Supporting Documents)	From.....to....	From.....to....	From.....to....
2(iv)	D-Details of machinery and other facilities available at the manufacturing unit where the proposed material / product shall be manufactured. (Supporting Documents)	From.....to....	From.....to....	From.....to....
2(v)	E-QUALITY PLAN & CERTIFICATION. (Supporting Documents)	From.....to....	From.....to....	From.....to....
2(vi)	F-FINANCIAL DATA. (Supporting Documents)	From.....to....	From.....to....	From.....to....
2(vii)	G-TYPE TEST CERTIFICATES. (Supporting Documents)	From.....to....	From.....to....	From.....to....
2(viii)	H-AFTER SALES SERVICE. (Supporting Documents)	From.....to....	From.....to....	From.....to....

.....XXXXX.....



Annexure-II:- Mandatory requirements for submitting Application for empanelment of makes of various major Electrical items.			
Product Name & S. No. as per Annexure-1			
Make			
Manufacturer			
S. No.	Type	Description	Yes / No
1	Blacklisting	Has the product / firm been black listed in last 03 years by any Govt. Department / PSU in India or abroad.	Y / N
2	General	Land/premises details of manufacturing unit, like address, total area, covered area etc provided.	Y / N
3		Ownership details of land/premises of manufacturing unit like copy of registered deed, copy of lease deed, copy of rent receipt etc provided	Y / N
4		Documents of company registration provided. (mandatory for Indian firm and alternative documents for foreign companies)	Y / N
5		Duly notarised valid power of attorney of the authorized representative along with relevant Board Resolution provided.	Y / N
6	Past Record	Copy of 05 largest purchase orders and their corresponding performance certificates from the end users provided.	Y / N
7	Quality and Technology	Quality assurance & quality control plan submitted	Y / N
8		Complies with applicable standards. Corresponding type test certificate and type test report for the proposed product submitted.	Y / N
9	Financial Parameters	GST Registration Certificate (Mandatory for Indian firm and alternative documents for foreign companies)	Y / N
10		Duly filed income tax returns of last 2 years submitted	Y / N
11		Last Three Year Annual Report and Balance Sheet	Y / N

Please note that if any of the above mandatory documents is not submitted with the application, DMRC will not evaluate the application form any further and the proposal will be rejected outrightly.



Application Form for Empanelment of Makes of various major Electrical items

S.No.	Description	Remarks
A	GENERAL	
1	Details of Material / Product proposed	
2	Name of Make, with brief details of proposed product like capacity, rating, etc.	
3	Registered Office of Manufacturer of the proposed Make.	
4	Name, Designation and contact details (Telephone number and email id) of the authorized representative.	
5	Please enclose Power of Attorney of the Authorized representative along with relevant Board Resolution.	
6	Address of Manufacturing Unit / Factory* (* Must comply with Neighboring Country order)	
6 (a)	Documents to substantiate ownership of land / premises of manufacturing unit. (like Lease deed, or copy of rent receipt, etc.)	
6 (b)	Total land / plot area,	
6 (c)	Total covered area	
7	Licensed capacity of the plant (if applicable), (backed by documentary evidence).	
8	Approximate monthly production capacity of proposed product / make per month.	
9	Actual production of the product / make per month with supporting documents.	
B	Company Profile & Experience of Vendor	
1	Ownership details of the Manufacturer of the proposed Make, with supporting documents. e.g. details of Share Holding, Parent company, Board of Directors, etc.	



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Delhi Metro Rail Corporation Limited

S.No.	Description	Remarks
2	Is the manufacturer registered in India under the Indian Companies Act.	
(a)	If yes, please provide copy of Registration certificate.	
(b)	If No, please provide relevant alternative documents applicable in the country of origin to substantiate the authority for manufacturing / business.	
3	Number of years, the proposed material / product, is being manufactured.	
4	Organizational details of the vendor Please provide the Organization chart of the manufacturing company, including details of manpower at various levels, experience and competency of key manpower, etc.	
5	Are following facilities available "in – house"? (If yes, please provide details along with the supporting documents)	
(a)	Design	
(b)	Testing	
(c)	Research and Development	
C	References / Details of Experience of providing proposed Make / Product in Last 10 Years.	
1	Details of Type / model of proposed product.	
2	Details of Purchase Orders.	



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S.No.	Description	Remarks
	Please enclose copy of five largest Purchase Order from client indicating scope of work, type / model of the product, quantity, total value, date of issuance of purchase order. <i>(Purchase order should be on letter head of the client and must contain contact details of the client's representative for verification).</i>	
a	Summary of Purchase Order – 1	
b	Summary of Purchase Order– 2	
c	Summary of Purchase Order– 3	
d	Summary of Purchase Order– 4	
e	Summary of Purchase Order– 5	
	Details of Performance Certificates.	
3	Enclose copy of product performance certificate of five purchase orders mentioned above from the client indicating the scope of work, make & model of the product, quantity, total value, year of completion / installation and the remarks on performance of the equipment and after sales service. <i>(Certificate should be on the letter head of the client and must contain the contact details of the client's representative for verification).</i>	
a	Summary of certificate – 1	
b	Summary of certificate – 2	



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S.No.	Description	Remarks
c	Summary of certificate – 3	
d	Summary of certificate – 4	
e	Summary of certificate – 5	
4	Has the proposed product / material been used in Delhi Metro Rail Corporation <i>(If yes, provide details thereof, accompanied by the performance certificate from DMRC)</i>	
5	Has the proposed product / material been used in any other Metro / System in India OR worldwide in similar environment conditions. <i>(If yes, please provide details thereof, accompanied by the client certificates)</i>	
6	Has the proposed product / material been used in any other Railway or Airport Project in India or worldwide. <i>(If yes, please provide details thereof, accompanied by the client certificates)</i>	
7	Has the proposed product / material been used in any other Central or State Government Project. <i>(If yes, please provide details thereof, accompanied by the client certificates)</i>	
8	Has the proposed product / material been used in any Private Limited Organization. <i>(If yes, please provide details thereof, accompanied by the client certificates)</i>	
9	Has the product, make or manufacturing unit been blacklisted by any public sector undertaking, State Govt., Central Govt. Department or Agency in India or Abroad in last 3 years.	



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S.No.	Description	Remarks
10	Have you been involved in any litigation / Arbitration with any Government Department / Public Sector Undertaking / Private Sector / or any other government agency during the last 3 years. If yes, provide details, thereof.	
D	Details of machinery and other facilities available at the manufacturing unit where the proposed material / product shall be manufactured. (Please provide brief write up with supporting documents to explain the same.)	
E	QUALITY PLAN & CERTIFICATION	
1	Please provide Quality Plan for manufacturing of the proposed product. <i>(Plan should include quality checks and tests conducted on raw material, bought-out items / components, stage – wise quality checks, etc.)</i>	
2	Independent Certification/ Accreditation available for manufacturing unit (e.g. ISO 9001, etc.) <i>(Please provide copy of certificate)</i>	
(a)	Reference Number and date issuance	
(b)	Certificate issued by	
(c)	Validity of the certificate	
(d)	Scope for which certificate has been issued	
3	Details of measures adopted to reduce energy consumption and Green House Gas emission in the production process deployed. <i>(Please submit details / documents thereof.)</i>	
4	Measures adopted to recycle the industrial waste generated during processing <i>(Please submit details / documents thereof.)</i>	
5	Is Manufacturing facility ISO 14001 certified? <i>(Please provide copy of certificate)</i>	



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S.No.	Description	Remarks
6	Reference of IS Code or any other code applicable to the proposed product.	
7	Technical Literature of proposed Product / Make. (Please provide comparison of construction and performance properties w.r.t. permissible limits as per the relevant code.)	
8	Details of In-House Testing facilities	
(a)	Details of available test facility as per applicable Indian OR International standard.	
(b)	Is it as per Standard applicable for the product / material? <i>(If yes, please submit details).</i>	
(c)	Is the testing facility accredited for the relevant standard by an independent agency? <i>(If yes, please provide relevant certificate)</i>	
(d)	Please confirm that all Routine Tests and other Type Tests / Special Tests as prescribed in the applicable standards, can be conducted in the “in-house” accredited test facility.	
(e)	In case any tests are conducted in external facility, please provide details, thereof.	
F	FINANCIAL DATA (Please submit audited balance sheets for last 3 years).	
1	Net worth of the Manufacturer.	
2	GST Registration details (Please provide copy of GST Regn. Certificate)	
3	Profitability (should be positive in last 3 years)	
4	Liquidity of Manufacturer	
5	Turnover of Manufacturer	
6	Banker's Solvency Certificate to be submitted <u>(issued in current financial year 2021-22)</u>	



S.No.	Description	Remarks
G	TYPE TEST CERTIFICATES	
	Please provide Type test certificate from accredited laboratory <u>mentioning relevant applicable standards</u> for proposed material / product. <i>(In case, specific requirements are mentioned in relevant standards with regard to type testing, same shall also be complied additionally)</i>	
1	Is the type test certificate provided	
2	Test Certificate is valid upto (Date)	
3	Is Test report from an accredited laboratory? <i>(If yes, please attach a copy of accreditation certificate valid on the date of test)</i>	
5	Is Certificate/ report for the proposed model?	
6	Is Test certificate as per the relevant standard?	
7	Is Test certificate less than 5 Years old (as applicable on date of submission to DMRC)	
H	AFTER SALES SERVICE	
1	Please provide details of after sales support system in Delhi & NCR Region	
2	Please provide details of after sales support system in India (Excluding Delhi & NCR Region)	

We hereby confirm that: -

- 1) This proposal is in accordance with the relevant standard.
- 2) The proposed material/product is proven one and has been in service for _ years



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- 3) The proposed equipment performance will not be affected by EMI/EMC effect of 25kV single phase OHE. (Report of EMI/EMC study is enclosed, if applicable)
- 4) We assure to provide spares and maintenance support during the life time of the product, irrespective of upgradation/ phasing-out of the materials / products.
- 5) We are aware that despite inclusion in list of empanelled makes / vendors, we are liable to submit technical compliances in respective contract as per the stipulated Technical specifications in the prescribed format, prior to getting confirmed order from the Contractor for supply of material / to take up the work for DMRC project.

Further, we assure that all the statements, information and answers given above are true and no information has been suppressed. In case any information provided by us is found incorrect or misleading, DMRC will be at liberty to take suitable penal action as considered appropriate.

Date:.....

Place:.....

(Signatures of the Authorised Signatory)

Name and Stamp of Authorised Signatory



Sample explanatory note for Submission of Single Application for Single Item: -

- Step 1:** - Make pdf file of application duly filled in all respect and signed each page. Let's call this is **File A**.
- Step 2:** - Make single pdf file of all supporting documents pertaining to application duly signed each page. Let's call this is **File B**.
- Step 3:** - Merge both pdf files created as discussed in Step 1 & Step 2 i.e. **File A & File B**. Let's call this is **File AB**.
- Step 4:** - With the help of pdf software, print page number of pdf **File AB**.
- Step 5:** - Make index page and addressed all page/ documents of **File AB** properly.
- Step 6:-** The page number of index page should be given as 'i', 'ii & so on.
- Step 7:** - Merge index page(s) and **File AB**. Let's call this **File X**.
- Step 8:** - Submit the application (**File X**) at <https://eprocure.gov.in>.
- Step 9:** - If size of **File X** is greater than 40Mb, Spit **File X** in parts (i.e. **File X1, File X2 & FileX3**) having size less than or equal to 40 Mb. For example, File X has 300 pages then File X1, File X2, File X3 should carry Pages 1-100 (with index page), 101-200, 201-300 respectively. However, Applicant may vary pages number according to requirement of size of file.
- Step 10:** - Upload/ submit all Files in order i.e. 1st row - File X1, 2nd row - File X2 & 3rd row - File X3 at <https://eprocure.gov.in>.

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Sample explanatory note for Submission of Multiple Applications for Multiple Items:-

- Step 1:** - Make separate pdf file of all applications duly filled in all respect and signed each page. Let's call them as are **File A1** for item 'aa', **File A2** for item 'bb', **File A3** for item 'cc' & so on.
- Step 2:** - Make separate single pdf file of all supporting documents pertaining to applications duly signed each page. Let's call these are **File B1 for File A1, File B2 for File A2, File B3 for File A3 and so on.**
- Step 3:** - Merge respective pdf files created as discussed in Step 1 & Step 2 i.e. **File A1 with File B1, File A2 with File B2, File A3 with File B3.** Let's call these are **File A1B1, File A2B2, File A3C3 and so on.**
- Step 4:** - Merge all pdf file created as discussed in Step 3 i.e. **File A1B1, File A2B2, File A3C3 and so on. Let's call this File AB.**
- Step 5:** - With the help of pdf software, print page number of pdf **File AB.**
- Step 6:** - Make index page and addressed all page/ documents of **File AB** properly.
- Step 7:-** The page number of index page should be given as 'i', 'ii & so on.
- Step 8:** - Merge index page(s) and **File AB.** Let's call this **File X.**
- Step 9:** - Submit the application (**File X**) at <https://eprocure.gov.in>.
- Step 10:** - If size of **File X** is greater than 40Mb then Spit **File X** in parts (i.e. **File X1, File X2, File X3 and so on**) having size less than or equal to 40 Mb. For example, File X has 600 pages then File X1, File X2, File X3 should carry Pages 1-200 (with index page), 201-400, 401-600 respectively. However, Applicant(s) may vary pages number according to requirement of size of file.
- Step 10:** - Upload/ submit all Files in order i.e. **1st row - File X1, 2nd row - File X2, 3rd row - File X3** and so on at <https://eprocure.gov.in>.

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