



# NORTH BIHAR POWER DISTRIBUTION CO. LTD.

[Office of Chief Engineer, Project-I/Urban]  
(Regd. Office: Vidhut Bhawan, Bailey Road, Patna)  
CIN No: U40109BR2012SGC018920

Letter No: 1574  
[File No:-N-XIII/RDSS/V.A/Samastipur Circle-3019/2023-  
Dated: 27-10-23

E-mail: cerdssnbpdc@gmail.com

From,

**Shriram Singh**  
Chief Engineer, Project-I (Urban)

To,

**M/s Polycab India Ltd.**  
Polycab House, 771,  
Pandit Satwalekar Marg, Mumba  
Email:- umesh.joshi@polycab.com

**Sub:-** Regarding approval of GTP & Drawing of SMC Single & 3 Phase SMDB of make M/s Lan Engineering & Technologies, Noida for Loss Reduction Component works under "Revamped Reforms-Based and Results-Linked Distribution Sector Scheme."

**Ref:-** (i) NOA No.-248 & 249 dated 06.03.2023  
(ii) Your letter no.-PIL/HO/22-23/NBPDCL/Misc/122 dated 05.10.2023  
(iii) This office Letter No.-239 dated 10.10.2023

Sir,

With reference to the above, please find the copy of approved GTP & Drawing of following item for Loss Reduction Component works under "Revamped Reforms-Based and Results-Linked Distribution Sector Scheme":-

S.N.	Material Description	Vendor Name
1	SMC Single Phase LT Distribution Box (285 X 225 X 120 mm)	M/s Lan Engineering & Technologies, B-07 & B-17, Sector-83, Noida-201305, U.P.
2	SMC Three Phase LT Distribution Box (300 X 418 X 120 mm)	

Correction where required in GTP & Drawing submitted by you has been done. However, these drawings shall be subject to correctness as per technical specifications of the tender document and the entire responsibility of correctness of the drawing as per the specifications as well as supply of material according to the technical specifications of the contract agreement shall be that of the contractor.

In case of any conflict or contradiction between GTP/Drawing & Technical Specifications, the decision of Chief Engineer, Project-I (Urban) shall be final and binding on both parties. Contractor shall have to replace the material to the entire satisfaction of the purchaser in case the material is found unsuitable for use in the project, at any stage.

Please carry out the works immediately under the conditions stated above.

Encl:- As above

Yours faithfully,

(Shriram Singh)

Chief Engineer, Project-I (Urban)


Memo No.- 1574 Date- 27-10-23

Copy forwarded to Chief Engineer, Project-II, NBPDCL for information and necessary action.

Encl:-As above

(Shriram Singh)

Chief Engineer, Project-I (Urban)

	<b>POLYCAB India Ltd.</b> POLYCAB House, 771 Pandit Satawalekar Marg, Mahim West, Mumbai-400016
<b>PROJECT</b>	Development of Distribution Infrastructure at Samastipur Electric Supply Circle (Samastipur & Vaishali districts) of Bihar under the Revamped Reforms-based and Results-linked, Distribution Sector Scheme.
<b>OWNER</b>	North Bihar Power Distribution Company Limited Vidyut Bhawan, Bailey Road, Patna-21
<b>NOA NO.</b>	N-XIII/P-I(U)/Tender(RDSS)-3050/2022/248 Dated:06/03/2023 N-XIII/P-I(U)/Tender(RDSS)-3050/2022/249 Dated:06/03/2023
<b>MANUFACTURER</b>	M/s. Lan Engineering & Technologies, B-07&17, Sector-83, Noida

**GUARANTEED TECHNICAL PARTICULARS OF SMC SINGLE PHASE  
LT DISTRIBUTION BOX FOR LT AB CABLE**

S. No.	PARTICULARS	DETAILED PARTICULARS	OFFERED
1.	Manufacturer's Name	M/s Lan Engineering & Technologies B-07&17, Sector-83, Noida-201305 (U.P.)	
2.	Material	Sheet Moulding Compound (SMC) as per IS: 13410-1992	Sheet Moulding Compound (SMC) as per IS: 13410-1992 ✓
3.	Grade of Material	SMC Confirming to IS: 13410-1992, Grade S3	SMC Confirming to IS: 13410-1992, Grade S3 ✓
4.	Color of the Box	Off White	Off White ✓
5.	<b>Properties of Material of Construction of SMC Box</b>		
(a)	Heat deflection temperature (Ref std. IS:13411 )	150° C (Min.)	150° C (Min.) ✓
(b)	Exposure to flame (Ref. Std. IS: 4249)	Self-extinguishing	Self-extinguishing ✓
(c)	Melting Point (Ref. Std. IS: 13360)	Does not melt	Does not melt up to 400°C ✓
6.	Degree of Protection	IP- 55	IP- 55 ✓
7.	<b>Inside Dimension of the Box</b>		
(a)	Height	285 mm	285 mm ✓
(b)	Width	225 mm	225 mm ✓
(c)	Depth	120 mm	120 mm ✓
(d)	Thickness of the Box	2.0 mm overall	2.0 mm overall ✓
8.	Earthing Arrangement	M6x25 MSZP Bolt with nut and washer	M6x25 MSZP Bolt with nut and washer ✓
9.	Hinge	Concealed SS hinge provided	Concealed SS hinge provided ✓
10.	Door Closing Arrangement	"U" shaped Latch provided	"U" shaped Latch provided ✓
11.	Locking & Sealing Arrangement	Φ8mm hole for Locking & Φ2.5mm hole for wire sealing	Φ8mm hole for Locking & Φ2.5mm hole for wire sealing ✓
12.	<b>Bus Bar Details</b>		
(a)	Bus Bar Material	EC Grade Aluminium Bus Bar	EC Grade Aluminium Bus Bar ✓
(b)	Bus Bar size	40x6mm (165 mm Long-2 nos.)	40x6mm (165 mm Long-2 nos.) ✓
(c)	Nos. of Connection from each bus bar	1 nos. I/C & 8 nos. O/G Connection	1 nos. I/C & 8 nos. O/G Connection ✓

**APPROVED**  
Subject to the condition that you are not responsible for the correctness of materials  
CE (Project-1), Urban  
NBPDCI

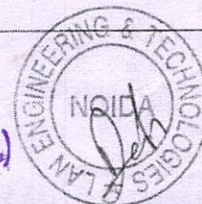
B-07 & B-17, Sector-83, Noida-201305, (U.P) INDIA  
+91-9811520225

lantecnoida@gmail.com, Sale@lanengineering.in

Mfg Of : AB Cable Accessories, LT Cable, & Energy Meters, SMC, Deep Drawn, Polycarbonate LT Distribution Boxes & Meter Boxes.

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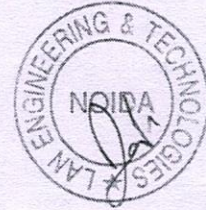
AP (P-1) EE (P-1) EE (P-1) EE (P-1)



13.	Connection Arrangement	M6x25mm MSZP nut Bolt & washer	M6x25mm MSZP nut Bolt & washer
14.	Bus Bar Mounting Arrangement	Step Mounting Arrangement	Step Mounting Arrangement
15.	Clearances between Bus Bar to Bus Bar	40 mm (Min.)	40 mm (Min.)
16.	Cable Entry & Exit Arrangement	1 no. $\Phi$ 30 mm hole with Rubber Grommet for incoming cable & 8 nos. $\Phi$ 15 mm hole with Rubber Grommet for outgoing cable on the lower wall of the box.	1 no. $\Phi$ 30 mm hole with Rubber Grommet for incoming cable & 8 nos. $\Phi$ 15 mm hole with Rubber Grommet for outgoing cable on the lower wall of the box.
17.	Box Mounting Arrangement	2 nos. 25x3mm MS Flat & 1 no. $\Phi$ 6 mm MS Clamp as per drawing	2 nos. 25x3mm MS Flat & 1 no. $\Phi$ 6 mm MS Clamp as per drawing
18.	Rating of Current	200 Amp	200 Amp
19.	Rating of Voltage	600V	600V
20.	Tamper Proof	Box Could not be Temper proof through hot soldering Iron	Box Could not be Temper proof through hot soldering Iron
21.	Marking	As per drawing	NBPDCL-RDSS, manufacturer Name, and Danger marking in red colour.

Tolerance -  $\pm 3\%$

NOTE - leftover parameters if any shall be as per TS of RDSS and relevant standards.



**APPROVED**

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CE (Project-1), Urban  
NBPDCL

**Checked**

MP/SY  
AEE(P-1) EEE(P-1) ESE(P-1)





# LAN

ENGINEERING & TECHNOLOGIES  
An ISO 9001:2015 Certified Company

143

	<b>POLYCAB India Ltd.</b> <b>POLYCAB House, 771 Pandit Satawalekar Marg, Mahim West, Mumbai-400016</b>
<b>PROJECT</b>	Development of Distribution Infrastructure at Samastipur Electric Supply Circle (Samastipur & Vaishali districts) of Bihar under the Revamped Reforms-based and Results-linked, Distribution Sector Scheme.
<b>OWNER</b>	<b>North Bihar Power Distribution Company Limited</b> Vidyut Bhawan, Bailey Road, Patna-21
<b>NOA NO.</b>	N-XIII/P-I(U)/Tender(RDSS)-3050/2022/248 Dated:06/03/2023 N-XIII/P-I(U)/Tender(RDSS)-3050/2022/249 Dated:06/03/2023
<b>MANUFACTURER</b>	<b>M/s. Lan Engineering &amp; Technologies,</b> <b>B-07&amp;17, Sector-83, Noida</b>

**GUARANTEED TECHNICAL PARTICULARS OF SMC THREE PHASE  
LT DISTRIBUTION BOX FOR LT AB CABLE**

S. NO.	PARTICULARS	DETAILED PARTICULARS	OFFERED
1.	Manufacturer's Name	M/s Lan Engineering & Technologies B-07&17, Sector-83, Noida-201305 (U.P.)	
2.	Material	Sheet Moulding Compound (SMC) as per IS: 13410-1992	Sheet Moulding Compound (SMC) as per IS: 13410-1992
3.	Grade of Material	SMC Confirming to IS: 13410-1992, Grade S3	SMC Confirming to IS: 13410-1992, Grade S3
4.	Color of the Box	Off White	Off White
<b>5. Properties of Material of Construction of SMC Box</b>			
(a)	Heat deflection temperature (Ref std.IS:13411)	150° C (Min.)	150° C (Min.)
(b)	Exposure to flame (Ref. Std. IS: 4249)	Self-extinguishing	Self-extinguishing
(c)	Melting Point (Ref. Std. IS: 13360)	Does not melt	Does not melt up to 400°C
6.	Degree of Protection	IP- 55	IP- 55
<b>7. Inside Dimension of the Box</b>			
(a)	Height	300 mm	300 mm
(b)	Width	418 mm	418 mm
(c)	Depth	120 mm	120 mm
(d)	Thickness of the Box	2.0 mm overall	2.0 mm overall
8.	Earthing Arrangement	M6x25 MSZP Bolt with nut and washer	M6x25 MSZP Bolt with nut and washer
9.	Hinge	Concealed SS hinge provided	Concealed SS hinge provided
10.	Door Closing Arrangement	"U" shaped Latch provided	"U" shaped Latch provided
11.	Locking & Sealing Arrangement	Φ8mm hole for Locking & Φ2.5mm hole for wire sealing	Φ8mm hole for Locking & Φ2.5mm hole for wire sealing with lock
<b>12. Bus Bar Details</b>			
(a)	Bus Bar Material	EC Grade Aluminium Bus Bar	EC Grade Aluminium Bus Bar
(b)	Bus Bar size	25 x 10 mm- (190mm Long)-3 Nos. for Phase 40 x 6 mm- (190mm Long)-1 Nos. for Neutral	25 x 10 mm- (190mm Long)-3 Nos. for Phase 40 x 6 mm- (190mm Long)-1 Nos. for Neutral

**APPROVED**  
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GE (Project-1), Urban  
NBPDCI

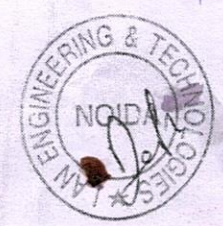
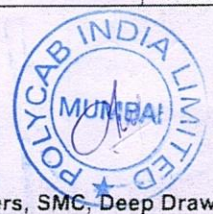
**Checked**

AEE(P-1) EEE(P-1) ESE(P-1)

B-07 & B-17, Sector-83, Noida-201305, (U.P) INDIA  
+91-9811520225

lantechnoida@gmail.com, Sale@lanengineering.in

Mfg Of : AB Cable Accessories, LT Cable, & Energy Meters, SMC, Deep Drawn, Polycarbonate LT Distribution Boxes & Meter Boxes.





(c)	Nos. of Connection from each bus bar	1 no. I/C & 4 nos. O/G suitable for 4C x 16 sq mm	1 no. I/C & 4 nos. O/G suitable for 4C x 16 sq mm
13.	Connection Arrangement	M8x30mm MSZP Bolt with Nut & Washer	M8x30mm MSZP Bolt with Nut & Washer ✓
14.	Bus Bar Mounting Arrangement	Stepped Mounting Arrangement	Stepped Mounting Arrangement ✓
15.	Clearances between Bus Bar to Bus Bar	40 mm	40 mm ✓
16.	Cable Entry & Exit Arrangement	4 nos. Φ20 mm hole with Rubber Grommet & 4 nos. Φ20 mm hole with Rubber Grommet for incoming/ outgoing cable on the lower wall of the box	4 nos. Φ20 mm hole with Rubber Grommet & 4 nos. Φ20 mm hole with Rubber Grommet for incoming/ outgoing cable on the lower wall of the box. ✓
17.	Box Mounting Arrangement	4 nos. 25x3mm MS Flat & 2 nos. Φ6 mm MS Clamp as per drawing	4 nos. 25x3 mm MS Flat & 2 nos. Φ6 mm MS Clamp as per drawing ✓
18.	Current Rating	200A	200Amp ✓
19.	Voltage Rating	600V	600Volt ✓
20.	Temper Proof of box	Box could not be Tempered through hot soldering Iron	Box could not be Tempered through hot soldering Iron ✓
21	Tolerance	±5%	±5% ± 3% ✓
21.	Marking	As per drawing	NBPDCL-RDSS, manufacturer Name and Danger marking in red colour. ✓

NOTE - leftover parameters if any shall be as per TS of RD&E and relevant standard.



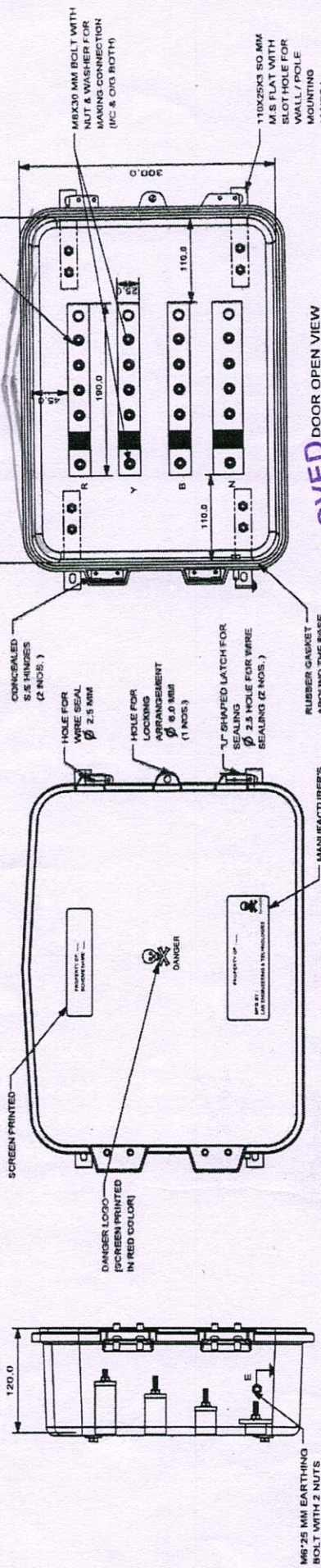
**APPROVED**

Subject to the condition that you are not absolved to the responsibility of correctness of materials ✓

CE (Project-1), Urban  
NBPDCL

**Checked**

MP ✓ SY ✓  
AEE(P-1) EEE(P-1) ESE(P-1)



APPROVED door OPEN VIEW

TOP VIEW

PLAN VIEW

25\*16 SQ. MM 190 MM(L) EC GRADE ALU / BUSBAR FOR R, Y, B PHASE & 40X8 SQ. MM NEUTRAL (4 NOS.)

M8X30 MM BOLT WITH NUT & WASHER FOR MAKING CONNECTION (IC & OVG BOTH)

110X25X3 SQ MM M.S. FLAT WITH SLOT HOLE FOR WALL / POLE MOUNTING (4 NOS.)

CONCEALED S/S HINGES (2 NOS.)

HOLE FOR WIRE SEAL WIRE SEAL Ø 2.5 MM

HOLE FOR LOCKING ARRANGEMENT Ø 8.0 MM (1 NOS.)

L SHAPED LATCH FOR SEALING 2.5 HOLE FOR WIRE SEALING (2 NOS.)

RUBBER GASKET AROUND THE BASE FOR IP

MANUFACTURER'S & DANGER LOGO NAME (EMBOSSED)

SCREEN PRINTED

DANGER LOGO (SCREEN PRINTED IN RED COLOR)

PROPERTY OF LAN ENGINEERING & TECHNOLOGIES

PROPERTY OF LAN ENGINEERING & TECHNOLOGIES

M8\*25 MM EARTHING BOLT WITH 2 NUTS & WASHERS

SIDE VIEW

Ø 20 MM CABLE WITH RUBBER GROMMET NOS. 4 NOS. FOR IC & OVG

Ø 120.0

BASE (SMC)

SMC COVER

THREAD BUTTABLE FOR NUT

400.0 ± 2.0

2 NOS. RPT. PLAIN WASHER & 2 NOS. PLAIN WASHER

100.0 ± 5.0

M.S. GALV. I.D. POLE CLAMP (2 NOS. EACH)

- NOTE:
- MADE OUT OF SHEET MOLDING COMPOUND BY THE PROCESS OF HOT PRESS COPRESION MOLDING CONFORMING TO IS 13416, GRADE S3
  - SMC BASE OR COVER SHALL NOT SOFTEN OR BEND ON HEATING
  - DOOR FITTED TO BASE BY CONCEALED HINGES & DOOR CLOSING CLAMP
  - DIMENSIONS: H-300MM, W-418MM, D-120MM
  - THICKNESS OVERALL BOX INCLUDING COVER - 2 DMM
  - COLOUR : OFF WHITE.
  - GENERAL TOLERANCE: ± 5%

APPROVED TO THE CONDITION OF THE SUBJECT TO THE ABSOLVED TO THE RESPONSIBILITY OF MATERIALS CE (Project-1), Urban NBPDC



Checked [Signature] AEE(P-1) EEE(P-1) ESE(P-1)



<b>POLYCAB</b>	<b>POLYCAB India Ltd.</b>
NO.007	Plot No. 771, Sector 17, Noida, Uttar Pradesh, India
OWNER	Development of Distribution Infrastructure at Samaspur Electric Supply Circle (Samaspur & Vardha) (project) of line under the Regional Reform-based and Rural Electrification Distribution Sector Scheme
NO.008	North Bihar Power Distribution Company Limited
NO.009	Vijay Bhawan, Bafey Road, Patna-21
NO.010	N.X.I.P.P. (U) Tender (RDS) 3050202248 Dated 06/03/2023H
NO.011	X.B.P. (U) Tender (RDS) 3050202249 Dated 06/03/2023
NO.012	LAN ENGINEERING & TECHNOLOGIES, 18/17, SECTOR 17, NOIDA - 201305

FIRST ISSUED	TITLE	LAN ENGINEERING & TECHNOLOGIES
DRAWN BY	B-07 & 17, SECTOR-83, NOIDA	
CHECKED BY	UP-201305	
APPROVED BY	SMC 3 PHASE LT DISTRIBUTION BOX	
SCALE	- 1 IC & 4 OVG	
SIZE	LAN2023-202401-08-B1-NORTH	
SHEET	REV	
A2	SCALE 1:1	
7		
8		

ALL DIMENSIONS IN MM TOLERANCE IN SIZE/ THICKNESS ± 5%