

Caution
28/3/19

IL EPSF Department User

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Approval Budget Execution Bidding Order Order Mgt Import PO **Receipt** Verification Affiliate Transfer Setup

Local Receipt List

Receipt: Local Receipt List >

Create Payment Submission

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Header

Payment Submission No **ILPCNZ1903287556**
 Request Date **28-Mar-2019**
 Requested by **Kumar, Rajesh - Kumar, Rajesh (REF - Prod. Engg/)**
 Title **PURCHASE OF BUS BAR FOR R1 LQC**

1. Contents

OK

2. Payment Summary

Voucher Batch Name: **MAIL-FINEPS_LOCAL-22009-190328-06845**

Accounting Unit	Basic Currency Code	Total		Invest		Expense		Supplies	
		Order	Receipt	Order	Receipt	Order	Receipt	Order	Receipt
Refrigeration AU	INR	1,449,126.00	1,449,126.00	1,449,126.00	1,449,126.00	0.00	0.00	0.00	0.00
Total		1,449,126.00	1,449,126.00	1,449,126.00	1,449,126.00	0.00	0.00	0.00	0.00

Approvals

Approval Type	Approval Status	Approved Date	Approver/Comment
APPROVAL	APPROVED	28 Mar-2019 10:17	PRAKASH, KANAKKEEL SH. P.V.BALAKRISHNAN(REF & C&C - Prod. Engg/a.g.m.) or
APPROVAL	APPROVING		BANSAL, VISHAL - BANSAL, VISHAL RAGHU NATH BANSAL(Prod. Engg./g.m.)
AGREE			GOYAL, ANKESH GOYAL, ANKESH SH. DINESH GOYAL(Noida Accounting Manager)

File Attach

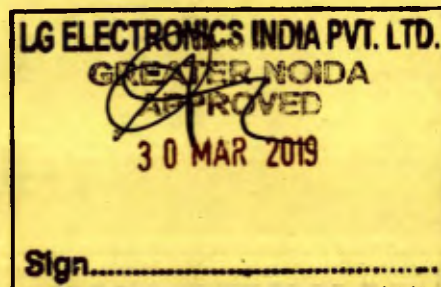
File	Description
MASTER ARR Approved APPROVAL FOR R1 LQC BUS BAR REPLACEMENT DESIGN CHANGE NEW TYPE OF CONSENT.msg [4349952 Byte]	
Untitled1.pdf [347652 Byte]	

Payment Details

Supplier	Order Submission No.	Order Submission Title	Accounting Unit	Payment Condition	Currency Code	Order Payment Amount	Invoice Date	Net Amount	Completion Report Date	Provision Status	Voucher No.
STIGHATECH INDUSTRIAL ELECTRONICS ()	ILPCNZ1903287556	PURCHASE OF BUS BAR FOR R1 LQC	Refrigeration AU	Part payment	INR	1,449,126.00	30-19-Mar-2019	1,449,126.00		N/A	2019-1903287556

Approval Budget Execution Bidding Order Order Mgt Import PO Receipt Verification Affiliate Transfer Setup Home Logout Preferences Help Diagnostics

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EPS 7101 - May

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Approval Budget Execution Bidding Order Order Mgt Import PO Receipt Verification Affiliate Transfer Setup

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Voucher Entry

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Order Summary

Order Submission No. ILOCNZ1903281806
 Order Submission Title PURCHASE OF BUS BAR FOR R1 LQC
 Payment Condition Part payment

Voucher Information

Voucher No. 2018-19/1151GST
 Voucher Status APPROVING
 Payment Submission No. ILPCNZ1903287556
 Payment Submission Title PURCHASE OF BUS BAR FOR R1 LQC
 Voucher Batch Name EAIL-FINEPS_LOCAL-22009-190328-06845

Invoice Information

Invoice Type GENERAL INVOICE
 Invoice No. 2018-19/1151GST
 Invoice Received Date
 Invoice Date 19-Mar-2019
 Accounting Date 28-Mar-2019
 Supplier Code IN004428
 Supplier Name SIGMATECH INDUSTRIAL ELECTRONICS
 Gst No. 09AAWFS0670E1ZU
 India Tax DFF
 LGE Name LG Electronics India (PVT.) Ltd
 LGE Biz-No AAACL1745Q
 Invoice Currency INR
 Payment Term Domestic 30 Days From Invoice Date
 Payment Method MASS_PAY
 Payment Group REGULAR
 Terms Date/Due Date 19-Mar-2019 17-Apr-2019

Waybill Information

Nature of Job Material
 Bill To State Uttar Pradesh
 Waybill Number
 Bill From State Uttar Pradesh
 Waybill Type
 Waybill Amount

Tax Information

(A) Net Amount 1,449,126.00
 Tax Base Amount 1,449,126.00
 Tax Classification [M2] Purchase (CGST + SGST) 9.0%

Tax rate code	Tax rate name	Tax base	Tax Rate (%)	Tax Amount	Non-deduction Rate(%)	Non-deduction Amount	DFF
ILP_SGST_090	Purchase S-GST 9%	1,449,126.00	9	130,421.50	0	0.00	AUTO
ILP_CGST_090	Purchase C-GST 9%	1,449,126.00	9	130,421.50	0	0.00	AUTO

(C) Tax Amount Total 260,843.00
 (D) Non-deduction Amount Total 0.00
 (E)=A+B+C+D Total Amount 1,709,969.00
 (F) Agreed Penalty
 (G)=E+F Payment Amount 1,709,969.00

Item Information

Seq.	Item Type	Item Name	HS Code	SAC	Spec. MakerName	Qty	Unit Price	Item Amount	(H) Item Payment Amount
	INVESTMENT	PURCHASE OF BUS BAR FOR R1 LQC	85369090			1	1,449,126.00	1,449,126.00	1,449,126.00
Total							1	1449126	1449126

Approval Budget Execution Bidding Order Order Mgt Import PO Receipt Verification Affiliate Transfer Setup Home Logout Preferences Help Diagnostics
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GSTIN : 09AAWFS0670E1ZU

Original for recipient

TAX INVOICE

SIGMATECH INDUSTRIAL ELECTRONICS 18-19

A-72 SECTOR-10 NOIDA 201301, UTTAR PRADESH

PAN : AAWFS0670E

Tel. : 0120-4310993 email : p.s@sigmatechelectronics.com

Invoice No. : 2018-19/1151GST
 Date of Invoice : 19-03-2019
 Place of Supply : Uttar Pradesh (09)

Reverse Charge : N
 PO NO : LGEIL/PE/REF/INV/1811/059
 PO DATE : 16/01/2019

Billed to :

LG ELECTRONICS INDIA PVT.LTD
 PLOT.NO.-51, UDYOG VIHAR
 SURAJPUR KASAN ROAD
 GREATER NOIDA, U.P.

Shipped to :

LG ELECTRONICS INDIA PVT.LTD
 PLOT.NO.-51, UDYOG VIHAR
 SURAJPUR KASAN ROAD
 GREATER NOIDA, U.P.

Party PAN : AAACL1745Q
 Party E-Mail ID :
 Party Mobile No :
 GSTIN / UIN : 09AAACL1745Q1Z2

Party PAN : AAACL1745Q
 Party E-Mail ID :
 Party Mobile No :
 GSTIN / UIN : 09AAACL1745Q1Z2

S.N.	Description of Goods	HSN/SAC Code	Qty.	Unit	List Price	Discount	Price	Amount(₹)
1.	DH 5253K2 STANDARD TYPE TROLLEY DUCTS SP60A STANDARD TRILLEY DUCT L-3M	85369090	20.00	Pcs.	25,983.00	0.00 %	25,983.00	5,19,660.00
2.	DH 6252K2 STANDARD TYPE TROLLEY DUCTS SP60A STNADARD TROLLEY DUCT L-2MM	85369090	2.00	Pcs.	19,491.00	0.00 %	19,491.00	38,982.00
3.	DH 6251K2 STANDARD TYPE TROLLEY DUCTS SP60A STANDARD TROLLEY DUCT L-1MM	85369090	2.00	Pcs.	11,917.00	0.00 %	11,917.00	23,834.00
4.	DH 6195 TROLLEY STANDARD TROLLEY	85369090	50.00	Pcs.	12,368.00	0.00 %	12,368.00	6,18,400.00
5.	DH 6103 TROLLEY SP70A COLLECTOR	85369090	50.00	Pcs.	4,965.00	0.00 %	4,965.00	2,48,250.00

Add : CGST @ 9.00 % 14,49,126.00
 Add : SGST @ 9.00 % 1,30,421.34
 Add : Rounded Off (+) 0.32

Grand Total 124.00 Pcs.

17,09,969.00

Tax Rate	Taxable Amt.	CGST	SGST	Total Tax
18%	14,49,126.00	130421.34	130421.34	2,60,842.68

Rupees Seventeen Lakh Nine Thousand Nine Hundred Sixty Nine Only

Bank Details : HDFC BANK LIMITED, A/C NO-50200023279195
 IFSE CODE- HDFC0001351 BRANCH-SECTOR-16 NOIDA

Terms & Conditions

F. & O.F.

1. Goods once sold will not be taken back.
2. Interest @ 18% p.a. will be charged if the payment is not made with in the stipulated time.
3. Subject to 'Uttar Pradesh' Jurisdiction only.

Receiver's Signature :

for SIGMATECH INDUSTRIAL ELECTRONICS 18-19

Authorised Signatory

[Signature]

SECURITY 9-7
UN No. 4367
ON 172
Ech No. 172
Date 19/08/01

[Signature]
6/13/08
151
5491
1506

[Signature]
6/13/08
151
5491
1506

GSTIN : 09AAWFS0670E1ZU

Duplicate for transporter

TAX INVOICE

SIGMATECH INDUSTRIAL ELECTRONICS 18-19

A-72 SECTOR-10 NOIDA 201301, UTTAR PRADESH

PAN : AAWFS0670E

Tel. : 0120-4310993 email : p.s@sigmatechelectronics.com

Invoice No. : 2018-19/1151GST
 Date of Invoice : 19-03-2019
 Place of Supply : Uttar Pradesh (09)

Reverse Charge : N
 PO NO : LGEIL/PE/REF/INV/1811/059
 PO DATE : 16/01/2019

Billed to :

LG ELECTRONICS INDIA PVT.LTD
 PLOT.NO.-51, UDYOG VIHAR
 SURAJPUR KASAN ROAD
 GREATER NOIDA, U.P.

Shipped to :

LG ELECTRONICS INDIA PVT.LTD
 PLOT.NO.-51, UDYOG VIHAR
 SURAJPUR KASAN ROAD
 GREATER NOIDA, U.P.

Party PAN : AAACL1745Q
 Party E-Mail ID :
 Party Mobile No :
 GSTIN / UIN : 09AAACL1745Q1Z2

Party PAN : AAACL1745Q
 Party E-Mail ID :
 Party Mobile No :
 GSTIN / UIN : 09AAACL1745Q1Z2

S.N.	Description of Goods	HSN/SAC Code	Qty.	Unit	List Price	Discount	Price	Amount(₹)
1	DH 6253K2 STANDARD TYPE TROLLEY DUCTS SP60A STANDARD TROLLEY DUCT L-3M	85369090	20.00	Pcs.	25,983.00	0.00 %	25,983.00	5,19,660.00
2	DH 6252K2 STANDARD TYPE TROLLEY DUCTS SP60A STANDARD TROLLEY DUCT L-2MM	85369090	2.00	Pcs.	19,491.00	0.00 %	19,491.00	38,982.00
3	DH 6251K2 STANDARD TYPE TROLLEY DUCTS SP60A STANDARD TROLLEY DUCT L-1MM	85369090	2.00	Pcs.	11,917.00	0.00 %	11,917.00	23,834.00
4	DH 6195 TROLLEY STANDARD TROLLEY	85369090	50.00	Pcs.	12,368.00	0.00 %	12,368.00	6,18,400.00
5	DH 6103 TROLLEY SP20A COLLECTOR	85369090	50.00	Pcs.	4,965.00	0.00 %	4,965.00	2,48,250.00
								14,49,126.00
Add : CGST @ 9.00 %								1,30,421.34
Add : SGST @ 9.00 %								1,30,421.34
Add : Rounded Off (+)								0.32
Grand Total 124.00 Pcs.								₹ 17,09,969.00

Tax Rate	Taxable Amt.	CGST	SGST	Total Tax
18%	14,49,126.00	130421.34	130421.34	2,60,842.68

Rupees **Seventeen Lakh Nine Thousand Nine Hundred Sixty Nine Only**

Bank Details : HDFC BANK LIMITED, A/C NO-50200023279195
 IFSE CODE- HDFC0001351 BRANCH-SECTOR-16 NOIDA

Terms & Conditions

I. & O.E.

1. Goods once sold will not be taken back.
2. Interest @ 18% p.a. will be charged if the payment is not made within the stipulated time.
3. Subject to 'Uttar Pradesh' Jurisdiction only.

Receiver's Signature :

for **SIGMATECH INDUSTRIAL ELECTRONICS 18-19**

Authorized Signatory



Government of India

e-Way Bill



1. E-WAY BILL Details

Bill No. 4910 5653 8241

Generated Date: 19/03/2019 04:16 PM

Generated By: 09AAW FS067 0E12U Valid Upto: 20/03/2019

Road

Approx Distance: 25km

Outward - Supply

Document Details: Tax Invoice - 2018-19/1151GST - 19/03/2019

Transaction type: Regular

2. Address Details

From

 09AAW FS067 0E12U
 SIGMA TECH INDUSTRIAL ELECTRONICS
 UTTAR PRADESH

UTTAR PRADESH-201301

To

 GSTIN: 09AAA CL174 5Q177
 LG ELECTRONICS INDIA PRIVATE LIMITED
 UTTAR PRADESH

 Ship To:
 Plot no - 51
 Udyog Vihar Surajpur-Kasna Road
 Greater Noida, UTTAR PRADESH-201306

3. Goods Details

HSN Code	Product Description	Quantity	Taxable Amount Rs.	Tax Rate (C+S+H+Cess+Cess Non.Advol)
850900	DH 6253K2	20.00 NOS	519660.00	9.000+9.000+NA+0.000+0.00
850900	DH 6252K2	2.00 NOS	38982.00	9.000+9.000+NA+0.000+0.00
850900	DH 6251K2	2.00 NOS	23834.00	9.000+9.000+NA+0.000+0.00
850900	DH 6195	50.00 NOS	618400.00	9.000+9.000+NA+0.000+0.00
850900	DH 6103	50.00 NOS	248250.00	9.000+9.000+NA+0.000+0.00

 Taxable Amt ₹ 1449126.00 CGST Amt ₹ 130421.34 SGST Amt ₹ 130421.34 IGST Amt ₹ 0.00 CESS Amt ₹ 0.00 CESS Non.Advol Amt ₹ 0.00
 Total Inv Amt ₹ 1709969.00

4. Transportation Details

Transporter ID & Name: 09AAWFS0670E12U & SIGMA TECH INDUSTRIAL ELECTRONICS

Transporter Doc. No & Date : & 19/03/2019

5. Vehicle Details

Mode	Vehicle / Trans Doc No & Dt.	From	Entered Date	Entered By	CEWS No. (If any)	Multi Veh. Info (If any)
Motor	UP16L 14367	NOIDA	19-03-2019 04:16 PM	09AAWFS0670E12U		



491056538241



LG Electronics India Pvt. Ltd.

Plot No. 51, Udyog Vihar, Surajpur-Kasna Road, Greater Noida - 201306 (U.P.) India
T: 91-120-7180100 F: 91-120-7180690/91 Website: www.lge.com

PURCHASE ORDER

Sigmatel Industrial Electronics
A-72, Sector-10,
Noida

Date : 16/01/2019
PO No. : LGEIL/PE/REF/INV/1811/059

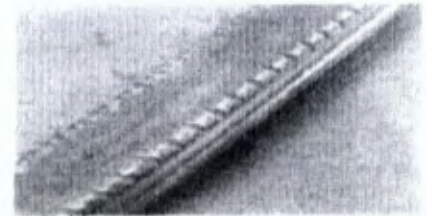
We are pleased to place the Purchase Order with you for the same with following details :

Sr.No.	Item Description	Qty.	Units	Unit Price (Rs.)	Amount (Rs.)
1	5P60A Standard Trolley duct L=3M (DH6253K2)	20	Nos	25,983	519,660
2	5P60A Standard Trolley duct L=2M (DH6252K2)	2	Nos	19,491	38,982
3	5P60A Standard Trolley duct L=1M (DH6251K2)	2	Nos	11,917	23,834
4	Standard Trolley 5920A (DH6195)	50	Nos	12,368	618,400
5	5P20A Collector	50	Nos	4,965	248,250
Basic Total					1,449,126

All Govt. Taxes Extra

Proposed Design

Need this type →



Delivery Address : LG Electronics India Pvt Ltd, 51, Udyog Vihar, Greater Noida.

Delivery Date : By 25 January-2019 at LGEIL.

Partial Shipment : Not Allowed

Invoice Gate Entry : Gate Entry is mandatory on Invoice at the time of material delivery

Gate Entry : For delivery, pls. contact one day in advance to provide details of person coming for delivery to following e-mail & phone
Mr. Lalit [Email- lalit4.kumar@lge.com ; Mob. No-0120-7180484]

Material /Bill Receiving : Mr Pradeep Contact No: 9958240365
Material should be delivered inside factory & receiving is not allowed at Gate

Payment Terms : Payment after 30 days of receipt of material and submission of bills at LGEIL

Payment Queries : Mr. Lalit [Email- lalit4.kumar@lge.com ; Mob. No-0120-7180484]

- Please attach Purchase order Copy with Invoice for proper gate entry at LGEIL.
- Please return the copy of this Purchase Order duly signed as a token of order acceptance.

Yours Faithfully,
For LG Electronics India Pvt Ltd

Kartik Prakash
AGM-Production Engineering

Vishal Bansal
GM-Production Engineering

Lalit Kumar/LGEIL WMC - Prod. Engg(lalit4.kumar@lge.com)

From: MUKUL SAXENA [mukul.saxena@lge.com]
Sent: Friday, November 30, 2018 10:19 AM
To: Lalit Kumar/LGEIL WMC - Prod. Engg(lalit4.kumar@lge.com)
Subject: [Approved] APPROVAL FOR R1 LQC BUS BAR REPLACEMENT/DESIGN CHANGE NEW TYPE OF CONSENT
Attachments: LQC Bus bar MODI Phase 2.pptx

* The date(Create Date, Approved Date, Check Date) is based on Korean standard time(GMT+9).

Subject APPROVAL FOR R1 LQC BUS BAR REPLACEMENT/DESIGN CHANGE NEW TYPE OF CONSENT
Created Date 2018.11.13 12:50 (Korea Time)
Requested by MUKUL SAXENA(LGEIL PCB REF - PE/manager,)

Rs. Lacs

Head		Details
Category		Investment
Approval No.		LGEIL/REF/PE/INV/1811/059
Budget Amount	Year Total -2018 (A)	935
	YTD-2018 (B)	935
Progress Status (YTD-Utilization prior to this Approval)	Amt (C)	884
	% (C) / (B)	95%
Execution Status (Current Approval Amount)	Amt (D)	11.1
	% (D) / (B)	2%
Total Utilization	Amt (E) = (C)+(D)	899
	% (E) / (B)	96%
Balance	Year Total-2018 (A) - (E)	36
	YTD-Year (B) - (E)	36

Investment Approval

Div/Deptt	Activity	Category	Amt (USD)	Investment Objective
REF/PE	R1 LQC Bus bar replacement/ design change New type of consent (Phase 1 of Activity already done)	Machinery	19.7 KS (taxes extra)	✓ Productivity/Idle Time

Purpose/ Detail

- > High idle time due to bus bar design , tripping and strand formation
- > 8 year old bus bar system and current collector
- > Frequent wear tear due to old bus bar
- > Bus bar Life over

Benefit

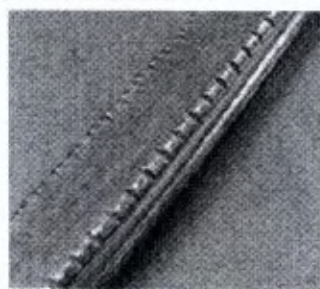
- > LQC Busbar Idle time improvement 60%
- > Old bus bar design change from straight to slot

Pictorial Illustration

As-Is IL


Korea

Different design and 2 bus bar system in Korea

Proposed Design


Time Schedule

Approval PO Issue FOB Transit Install

10/25 10/27 12/15 12/25 12/30

Years

ROIC

Saving K\$ Per Yr	Invest	ROI	 ROI
19.2	19.7	1.02	

Installation Location


Activity Code

CNZ18ME000039

Last Purchased Detail

Part of Asset

Last Purchased Cost

NA

Old Asset Detail



Copper piece out



Copper thread



Thin strand

MOM –LQC Bus bar 22nd Oct 18

MD Comment- Check Ref all subsidiary LQC Bus bar type and design and compare

Global Bus bar detail

Sub	Line	Make	Pole	Model	Year
CW	Ref_01	Vhale	4	KSL4/100	2001
	Ref_02	Vhale	4	KSL4/100	
	Ref_03	Vhale	4	KSL4/100	
IL(N)	Ref_01	Panasonic	5	DH625	2003
	Ref_02	Panasonic	3	DH643	
IL(P)	Ref_01	Panasonic	5	DH625	2005
	Ref_02	Vhale	4	KSL4/100	

LG Noida bus bar History

Event	Remark
R1 LQC Setup with Vahle Bus bar	Based on HQ benchmark Vahle Bus bar has lot of breakdown
R2 LQC Set up with Panasonic Bus bar	Introduced Panasonic as Vahle has many breakdown
R1 LQC Upgraded to Panasonic Busbar	

Item

Vahle (Germany)

- Bus bar body

- Plastic body -



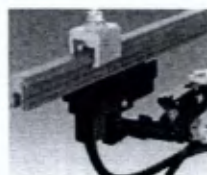
- Copper bar mount

- Vertical mount



- Power collector movement

- Plastic roller bush



- Power collector body

- Plastic body

- Application

- Suitable for auto pulling system
(Power collector pulled by Conveyor)

Conveyor pulling
Power collector



Panasonic (Japan)

- Steel body (Robust design)



- Horizontal mount (No chance of shorting)



- Metal ball Bearing (Less worn out)



- Steel body (Robust design)

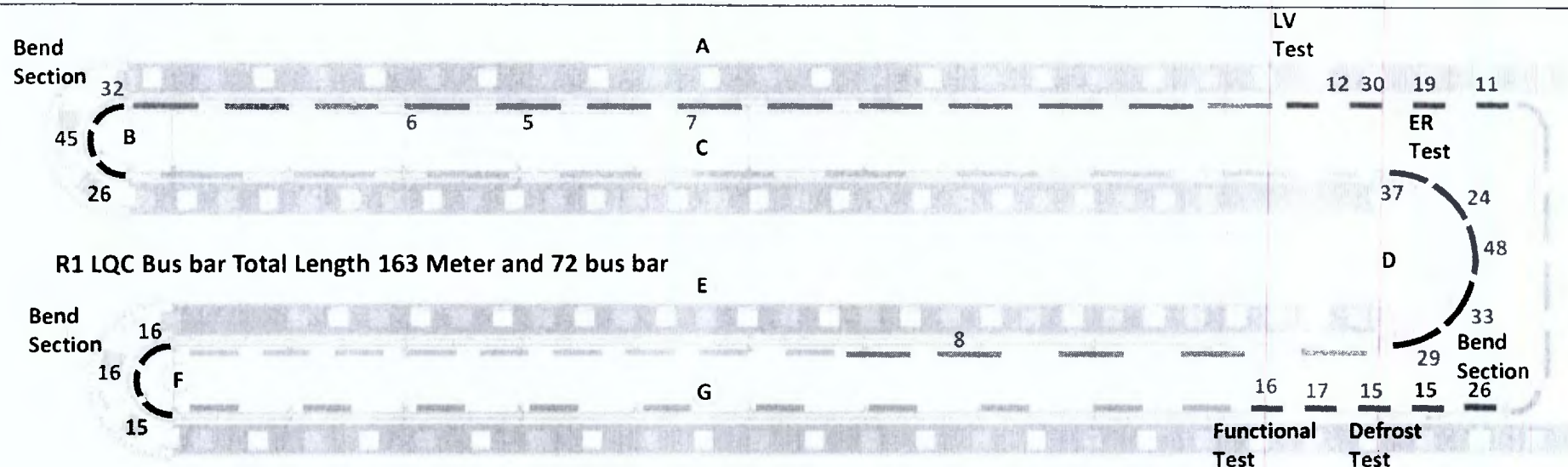
- Suitable for manual and Auto pulling collector
both application

Refrigerator pulling
Power collector



Note:- Suitable for LG Noida requirement

R1 LQC Power Rail and Current Trolley- Plan & Layout



AAR of 1st Priority Activity

		1 st Activity Idle Time (Min)		2018 YTD	1 st Activity done in June 2017
2016	Till June	June to Dec 17			
129	17	3	7		

Overall Plan

Priority	Criteria for Priority	Section	Cost (USD)	Plan	Symbol
Priority 1 st	Life is Over & Idle time due to sparking issue	Bend, Power changeover Bus bar & Power Consent	35K USD for consent 13K USD for Busbar 48 K USD	Mar 2017 Plan June 2017 Done (2 month delay)	 Activity done
Priority 2 nd	Life over 80% and Idle time under 10 min	Straight Bus bar and Changeover section Power consent	6.7 K\$ for Busbar 13 K\$ for consent 19.7 K USD	Sep 2018 Current Plan	 Proposed Activity
Priority 3 rd	Life Over 60%	Straight Bus bar and Current trolley	15K USD	March 2019	
Priority 4 th	Life Over 40%	Straight Bus bar and Current trolley	18K USD	Dec 2019	

R1 LQC Bus bar replacement Priority & Criteria

Bus bar Replacement schedule /Criteria

No.	Priority	Criteria	Idle Time (Min)			Schedule	Remark
			2016	2017	2018		
1	Priority 1st	Life over more than 100 % and Idle time	129	63	7	Jun-17	Done June 17
2	Priority 2nd	Life over 100%	40	68	77	Sep-18	Proposed
3	Priority 3rd	Life over 80%	0	5	10	Mar-19	Plan
4	Priority 4th	Life over 60%	0	0	3	Dec-19	Plan
			169	136	97		

1st Section Idle Time (Min)

	Till June	June to Dec	2018 YTD
2016	17	17	
129	60	3	7

1st Priority of Bus bar for Replacement (Now this activity has been done June 2017)

Section	Busbar No.	Length (Mtr)	Type	Estimated Life (Yrs)	Install/ Replaced	Current Life (Yrs)	Life Over	Breakdown Minute (Rs)			Priority
								2016	2017	2018	
A	4	1.9	Voltage changover section	3	2012	4	133%	6	5		1st
	5	1	Voltage changover section	3	2012	4	133%	9	7		1st
	6	1.5	Voltage changover section	3	2012	4	133%	10	4	7	1st
	7	1	Voltage changover section	3	2012	4	133%	6	3		1st
	18	1.2	Small Bend 60 deg	3	2012	4	133%	17	2		1st
B	19	1.2	Small Bend 60 deg	3	2012	4	133%	5	4		1st
	20	1.2	Small Bend 60 deg	3	2012	4	133%	6	6		1st
	34	1.6	Big Bend 36 deg	3	2013	3	100%	7	7		1st
	35	1.6	Big Bend 36 deg	3	2013	3	100%	9			1st
D	36	1.6	Big Bend 36 deg	3	2013	3	100%	8	3		1st
	37	1.6	Big Bend 36 deg	3	2013	3	100%	9	5		1st
	38	1.6	Big Bend 36 deg	3	2013	3	100%		4		1st
	49	1.2	Small Bend 60 deg	3	2013	3	100%		6		1st
	50	1.2	Small Bend 60 deg	3	2013	3	100%	5			1st
F	51	1.2	Small Bend 60 deg	3	2013	3	100%				1st
	61	1.5	Voltage changover section	3	2012	4	133%	6			1st
	62	2	Voltage changover section	3	2012	4	133%	7	3		1st
	63	3	Voltage changover section	3	2012	4	133%	7	4		1st
G	64	0.5	Voltage changover section	3	2012	4	133%	6			1st
	65	2	Voltage changover section	3	2012	4	133%	6			1st
								129	63	7	

R1 LQC Bus bar replacement Priority & Criteria

2nd Priority of Bus bar for Replacement

Section	Busbar No.	Length (Mtr)	Type	Estimated Life (Yrs)	Install/ Replaced	Current Life (Yrs)	Life Over	Breakdown Minute (Rs)			Priority
								2016	2017	2018	
A	1	1.3	Straight	5	2012	5	100%		8	7	2nd
	2	1.1	Straight	5	2012	5	100%	6	7	6	2nd
	3	2	Straight	5	2012	5	100%		5	9	2nd
	8	3	Straight	5	2012	5	100%				2nd
	9	3	Straight	5	2012	5	100%	5	6		2nd
	10	3	Straight	5	2012	5	100%			6	2nd
	11	3	Straight	5	2012	5	100%	5	5	5	2nd
	12	3	Straight	5	2012	5	100%		5	6	2nd
	13	3	Straight	5	2012	5	100%	5			2nd
	14	3	Straight	5	2012	5	100%		4	6	2nd
	15	2	Straight	5	2012	5	100%	6	5	7	2nd
	16	3	Straight	5	2012	5	100%		6	6	2nd
	17	3	Straight	5	2012	5	100%		7	6	2nd
	21	1.5	Straight	5	2012	5	100%	6	4	4	2nd
	22	3	Straight	5	2012	5	100%		6	4	2nd
	23	3	Straight	5	2012	5	100%	7		5	2nd
C	24	1.5	Straight	5	2012	5	100%				2nd
	25	3	Straight	5	2012	5	100%				2nd
								40	68	77	

3rd Priority of Bus bar for Replacement

Section	Busbar No.	Length (Mtr)	Type	Estimated Life (Yrs)	Install/ Replaced	Current Life (Yrs)	Life Over	Breakdown Minute (Rs)			Priority
								2016	2017	2018	
C	26	3	Straight	5	2013	4	80%				3rd
	27	3	Straight	5	2013	4	80%				3rd
	28	3	Straight	5	2013	4	80%				3rd
	29	1	Straight	5	2013	4	80%		5		3rd
	30	2	Straight	5	2013	4	80%				3rd
	31	3	Straight	5	2013	4	80%				3rd
	32	3	Straight	5	2013	4	80%			5	3rd
	33	3	Straight	5	2013	4	80%				3rd
	39	3	Straight	5	2013	4	80%				3rd
	40	1	Straight	5	2013	4	80%			2	3rd
	41	3	Straight	5	2013	4	80%				3rd
	42	3	Straight	5	2013	4	80%				3rd
	43	3	Straight	5	2013	4	80%			3	3rd
	44	1.5	Straight	5	2013	4	80%				3rd
	45	3	Straight	5	2013	4	80%				3rd
	46	3	Straight	5	2013	4	80%				3rd
	47	3	Straight	5	2013	4	80%				3rd
E	48	1.5	Straight	5	2013	4	80%				3rd
								0	5	10	

R1 LQC Bus bar replacement Priority & Criteria

4th Priority of Bus bar for Replacement

Section	Busbar No.	Length (Mtr)	Type	Estimated Life (Yrs)	Install/ Replaced	Current Life (Yrs)	Life Over	Breakdown Minute (Rs)			Priority
								2016	2017	2018	
G	52	3	Straight	5	2014	3	60%				4th
	53	3	Straight	5	2014	3	60%				4th
	54	3	Straight	5	2014	3	60%				4th
	55	3	Straight	5	2014	3	60%			3	4th
	56	3	Straight	5	2014	3	60%				4th
	57	3	Straight	5	2014	3	60%				4th
	58	3	Straight	5	2014	3	60%				4th
	59	3	Straight	5	2014	3	60%				4th
	60	3	Straight	5	2014	3	60%				4th
	66	1.5	Straight	5	2014	3	60%				4th
	67	0.75	Bend 45 degree Ret	5	2014	3	60%				4th
	68	3	Straight	5	2014	3	60%				4th
H	69	3	Straight	5	2014	3	60%				4th
	70	3	Straight	5	2014	3	60%				4th
	71	3	Straight	5	2014	3	60%				4th
	72	0.75	Bend 45 degree Ret	5	2014	3	60%				4th
								0	0	3	

Ordering Details

No.	Item Detail	Qty	Unit	Price (INR)	Qty	Cost(INR)	Supplier
1	SP60AStandardTrolley-ductL=3m		Ea	28,780	8	230,240	Panasonic
2	SP60AStandardTrolley-ductL=2m		Ea	21,590	8	172,720	
3	SP60AStandardTrolley-ductL=1m		Ea	13,200	6	105,600	
4	StandardTrolleySP20A		Ea	13,700	50	685,000	Local
5	Box and wiring		Ea	5,000	50	250,000	
Total (INR)						1443560	
Total (K\$)						19.7	
1\$=72 INR							

R1 LQC Install Bus bar Details

Section	Busbar No.	Length (Mtr)	Type
A 38.8 Mtr (1 st Slat)	1	1.3	Straight
	2	1.1	Straight
	3	2	Straight
	4	1.9	Voltage changeover section
	5	1	Voltage changeover section
	6	1.5	Voltage changeover section
	7	1	Voltage changeover section
	8	3	Straight
	9	3	Straight
	10	3	Straight
	11	3	Straight
	12	3	Straight
	13	3	Straight
	14	3	Straight
	15	2	Straight
	16	3	Straight
	17	3	Straight
B 3.6 Mtr (1 st Bend)	18	1.2	Small Bend 60 deg
	19	1.2	Small Bend 60 deg
	20	1.2	Small Bend 60 deg
	21	1.5	Straight
	22	3	Straight
C 33 Mtr (2 nd Slat)	23	3	Straight
	24	1.5	Straight
	25	3	Straight
	26	3	Straight
	27	3	Straight
	28	3	Straight
	29	1	Straight
	30	2	Straight
	31	3	Straight
	32	3	Straight
	33	3	Straight
D 8 Mtr (2 nd Bend)	34	1.6	Big Bend 36 deg
	35	1.6	Big Bend 36 deg
	36	1.6	Big Bend 36 deg
	37	1.6	Big Bend 36 deg
	38	1.6	Big Bend 36 deg

Section	Busbar No.	Length (Mtr)	Type
E 2S Mtr (3 rd Slat)	39	3	Straight
	40	1	Straight
	41	3	Straight
	42	3	Straight
	43	3	Straight
	44	1.5	Straight
	45	3	Straight
	46	3	Straight
	47	3	Straight
	48	1.5	Straight
F 3.6 Mtr (3 rd Bend)	49	1.2	Small Bend 60 deg
	50	1.2	Small Bend 60 deg
	51	1.2	Small Bend 60 deg
	52	3	Straight
	53	3	Straight
	54	3	Straight
	55	3	Straight
	56	3	Straight
	57	3	Straight
	58	3	Straight
G 37.5 Mtr (4 th Slat)	59	3	Straight
	60	3	Straight
	61	1.5	Voltage changeover section
	62	2	Voltage changeover section
	63	3	Voltage changeover section
	64	0.5	Voltage changeover section
	65	2	Voltage changeover section
	66	1.5	Straight
	67	0.75	Bend 45 degree Ret
	68	3	Straight
H 13.5 Mtr (Return)	69	3	Straight
	70	3	Straight
	71	3	Straight
	72	0.75	Bend 45 degree Ret

Total Bus bar Length 163 Meter which is divided in 72 section

Communication with Panasonic for Life cycle

Communication with OEM Panasonic For Bus bar Life Cycle

From: Rahul Goyal
To: MUKUL SAXENA/LGTEL REF - Prod_Engg(mukul.saxena@lge.com)
Cc: project.usc_kapil@yahoo.co.in; usc_kapil@yahoo.co.in
Subject: Re: DRAWING NUMBER
Date: Friday, October 07, 2016 10:56:00 AM

Dear Mukul G

I discuss with Japan , According to your Operation time ,& discussion with Unity we Suggest the below Cycle time .

- (1) Bend bus bar ----> 2-3 year
- (2) Straight bus bar ----> 5-6 Year
- (3) Power changeover section ----> 2-3 year

If you have any query , Kindly let me know .

Best Regards
Best Regards

Rahul Goyal
Panasonic India Pvt Ltd

Panasonic India Pvt. Ltd.
12th Floor, Ambience Tower,
Ambience Island, NH - 8,
Gurgaon -122002
Haryana India.

Mobile : +91-9650016217
(Tel No.) +91 - 124 - 4751300
(Fax No.) +91 - 124 - 4751333

From: "MUKUL SAXENA" <mukul.saxena@lge.com>
To: "rahul.goyal@in.panasonic.com" <rahul.goyal@in.panasonic.com>
Cc: "usc_kapil@yahoo.co.in" <usc_kapil@yahoo.co.in>, "project.usc_kapil@yahoo.co.in" <project.usc_kapil@yahoo.co.in>
Date: 10/06/2016 03:53 PM
Subject: DRAWING NUMBER

Please Send life cycle of

- (1) Bend bus bar
- (2) Straight bus bar
- (3) Power changeover section

Mukul[attachment "CB22888-1E - LG Drawing Ref line 1.pdf" deleted by Rahul Goyal/PI/Panasonic]

No	Approval Type	Status	Approved Date	Approved by / Comment
1	결재	승인완료	2018.11.14 09:22	KANAKKEEL PRAKASH(LGEIL REF & C&C - Prod. Engg/Part Leader) Comment: Ok. For R1 LQC. new design bus bar for avoid tripping and no power rejection
2	결재	승인완료	2018.11.16 15:54	VISHAL BANSAL(LGEIL Prod. Engg./Team Leader) Comment: ok. R1 LQC bus bar and power consent approval for 2018 (Phase - 2). As per last MOM comments we checked with Changwon and addition report attached in slide # 2.
Approval Line	3	결재	승인완료	2018.11.17 09:07 박진규(LGEIL FSE Production/책임) Comment: ok. checked
	4	결재	승인완료	2018.11.19 16:35 DINESH LUNAWAT(LGEIL Planning & Strategy/Team Leader) Comment: Agree. REF PE Investment Budget. Activity already reviewed & Approved.
	5	결재	승인완료	2018.11.20 08:52 CHANDRA KANDI(LGEIL Factory Head - Noida/Department Leader) Comment: ok
	6	결재	승인완료	2018.11.28 09:25 정재열(LGEIL Noida Manufacturing CFO/Department Leader) Comment: Ok
	7	결재	승인완료	2018.11.30 08:19 김태완(LGEIL Noida Manufacturing/상무/President) Comment: OK
CC	LalitKumar(WMC - Prod. Engg/LOCAL EMPLOYEE)			
Attached Files	■LQC Bus bar MODI Phase 2.pptx (4279898 Bytes)			
EDMS Attributes	Retention	5 Year		Security Grade
	Access	*LG Electronics;*LGEIL PCB REF - PE		Permission
				Browse;Download
				Browse;Download

CNTR_NO : IL-CT180500088

Contract

Contract Number : IL-CT180500088

Contract Date : 2018 / 05 / 22
(YYYY/MM/DD)

Contract Name : R1 LQC Bus Bar Replacement

Buyer : LG Electronics India Private Limited

A Wing , (3rd Floor) , D -3 District center , Saket , New Delhi -110017

CEO : Kim, Kiwan

Supplier : SIGMATECH INDUSTRIAL ELECTRONICS

C-381, IIND FLOOR, SECTOR-10 NOIDA

Representative : NA

Contract Amount	(INR) 2,724,949.00
Contract Period	2018 / 05 / 22 ~ 2018 / 08 / 31 (YYYY/MM/DD)

Purchase Details

No.	Item Code	Name		
		Specification		
Curr.	Qty.	Unit	Unit Price	Amount
1		R1 LQC bus bar replacement		
		As per Annexure		
INR	1.00	EA	2,724,949.00	2,724,949.00

SIGMATECH INDUSTRIAL ELECTRONICS

GSTIN: 09AAWFS0670E1ZU

A-72, Sector-10, Noida

Ph. -0120-4310993, 9811410907

E.mail-sigmattech1@rediffmail.com, acc1@sigmatechelectronics.com

(AUTHORISED DISTRIBUTOR For Panasonic FA Product)

SIE/LGE/145/18-19

22-05-2018

To,

M/S: LG Electronics India Pvt. Ltd

Plot No.51, Udyog Vihar, Surajpur -Kasna Road

Greter Noida

Kind. Attn: Mr. Sanjeev Tyagi

E mail: Sanjeev Tyagi <sanjeev.tyagi@lge.com>

Mob: 9953554031, 9990836088

Subject- Quotation for Panasonic Make FA Bus bar Product

Dear Sir,

This is with reference to your email enquiry regarding subject matter, we are pleased to offer our most competitive prices and other terms & conditions as under:-

Sr.No	Model Number	Description	HSN Code	Qty	Price/Unit	Total
1	DH6253K2	5P60A Standard Trolley-ductL=3m	85369090	43	25,983.00	11,17,269.00
2	DH6252K2	5P60A Standard Trolley-ductL=2m		14	19,491.00	2,72,874.00
3	DH6251K2	5P60A Standard Trolley-ductL=1m		8	11,917.00	95,336.00
4	DH6195	Standard Trolley 5P20A		40	12,368.00	4,94,720.00
5	DH6103	5P20A Collector		150	4,965.00	7,44,750.00
TOTAL					27, 24,949.00	

COMMERCIAL TERMS:-

Price Basis

: The prices quoted are Basic Price

GST

: GST @18% EXTRA

Delivery

: Techno-commercially clear order.

Payment

: 50% advance along with order, balance 50% against Performa Invoice prior

to dispatch

Packing & forwarding

: It is 2% extra of the total order value.

Freight

: Extra at actual.

Validity

: 1 Month.

In case of any further clarifications, please feel free to contact.

Thanking you and assuring you our best services at all times.

Best Regard**FOR-SIGMATECH INDUSTRIAL ELECTRONICS****PARVENDRA SINGH****09811410907**