

## Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	08-03-2024 13:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	08-03-2024 13:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	90 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Heavy Industries And Public Enterprises
Department Name/विभाग का नाम	Department Of Heavy Industry
Organisation Name/संगठन का नाम	Bharat Heavy Electricals Limited (bhel)
Office Name/कार्यालय का नाम	10090001-edn Bangalore
Total Quantity/कुल मात्रा	26
Item Category/मद केटेगरी	Alarm Annunciator LED Facia Cabinet 15W (BHEL MATERIAL CODE: SN0659431483) (Q3) , Alarm Annunciator LED Facia Cabinet 18W (BHEL MATERIAL CODE: SN0659431530) (Q3) , Alarm Annunciator LED Facia Cabinet 21W (BHEL MATERIAL CODE: SN0659431521) (Q3) , Alarm Annunciator LED Facia Cabinet 24W (BHEL MATERIAL CODE: SN0659431491) (Q3) , Alarm Annunciator LED Facia Cabinet 30W (BHEL MATERIAL CODE: SN0659431505) (Q3) , Alarm Annunciator LED Facia Cabinet 48W (BHEL MATERIAL CODE: SN0659431513) (Q3) , Alarm Annunciator LED Facia Cabinet 49W (BHEL MATERIAL CODE: SN0659431653) (Q3) , Alarm Annunciator LED Facia Cabinet 48W (BHEL MATERIAL CODE: SN0659431114) (Q3)
MSE Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से एमएसई छूट	No
Startup Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से स्टार्टअप छूट	No
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Additional Doc 1 (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No
ITC available to buyer/क्रेता के लिए उपलब्ध आईटीसी	Yes
Type of Bid/बिड का प्रकार	Two Packet Bid

Bid Details/बिड विवरण	
Primary product category	Alarm Annunciator LED Facia Cabinet 15W (BHEL MATERIAL CODE: SN0659431483)
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	2 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
Payment Timelines	Payments shall be made to the Seller within <b>90</b> days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10 days time as provided in clause 12 of GeM GTC)
Evaluation Method/मूल्यांकन पद्धति	Item wise evaluation/

#### EMD Detail/ईएमडी विवरण

Required/आवश्यकता	No
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#### ePBG Detail/ईपीबीजी विवरण

Required/आवश्यकता	No
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#### Splitting/विभाजन

Bid splitting not applied/बोली विभाजन लागू नहीं किया गया.

#### MII Purchase Preference/एमआईआई खरीद वरीयता

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
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#### MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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1. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which

no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.

[OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

2. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25%(selected by Buyer) percentage of total QUANTITY. The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023

[OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

3. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

#### **Evaluation Method ( Item Wise Evaluation Method )**

Contract will be awarded schedulewise and the determination of L1 will be done separately for each schedule. The details of item-consignee combination covered under each schedule are as under:

<b>Evaluation Schedules</b>	<b>Item/Category</b>	<b>Quantity</b>
Schedule 1	Alarm Annunciator Led Facia Cabinet 15w (bhel Material Code: Sn0659431483)	1
Schedule 2	Alarm Annunciator Led Facia Cabinet 18w (bhel Material Code: Sn0659431530)	3
Schedule 3	Alarm Annunciator Led Facia Cabinet 21w (bhel Material Code: Sn0659431521)	1
Schedule 4	Alarm Annunciator Led Facia Cabinet 24w (bhel Material Code: Sn0659431491)	1
Schedule 5	Alarm Annunciator Led Facia Cabinet 30w (bhel Material Code: Sn0659431505)	1
Schedule 6	Alarm Annunciator Led Facia Cabinet 48w (bhel Material Code: Sn0659431513)	1
Schedule 7	Alarm Annunciator Led Facia Cabinet 49w (bhel Material Code: Sn0659431653)	8
Schedule 8	Alarm Annunciator Led Facia Cabinet 48w (bhel Material Code: Sn0659431114)	10

**Alarm Annunciator LED Facia Cabinet 15W (BHEL MATERIAL CODE: SN0659431483) ( 1**

pieces )

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Buyer Specification Document/क्रेता विशिष्टि दस्तावेज़	<a href="#">Download</a>
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Input Tax Credit(ITC)/इनपुट कर क्रेडिट(आईटीसी) and/ तथा Reverse Charge(RCM)/रिवर्स प्रभार (आरसीएम) Details

ITC on GST/जीएसटी पर इनपुट कर क्रेडिट	ITC on GST Cess/जीएसटी उपकर कर क्रेडिट
100%	NA

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Dinesh Kumar Bhagat	560026,MANAGER STORES,- GI Bharat Heavy Electricals Limited Electronics Division, Mysore Road, Bangalore - 560026 Karnataka India	1	30

Alarm Annunciator LED Facia Cabinet 18W (BHEL MATERIAL CODE: SN0659431530) ( 3 pieces )

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

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Input Tax Credit(ITC)/इनपुट कर क्रेडिट(आईटीसी) and/ तथा Reverse Charge(RCM)/रिवर्स प्रभार (आरसीएम) Details

ITC on GST/जीएसटी पर इनपुट कर क्रेडिट	ITC on GST Cess/जीएसटी उपकर कर क्रेडिट
100%	NA

**Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Dinesh Kumar Bhagat	560026,MANAGER STORES,- GI Bharat Heavy Electricals Limited Electronics Division, Mysore Road, Bangalore - 560026 Karnataka India	3	30

**Alarm Annunciator LED Facia Cabinet 21W (BHEL MATERIAL CODE: SN0659431521) ( 1 pieces )**

**(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)**

**Technical Specifications/तकनीकी विशिष्टियाँ**

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**Input Tax Credit(ITC)/इनपुट कर क्रेडिट(आईटीसी) and/ तथा Reverse Charge(RCM)/रिवर्स प्रभार (आरसीएम) Details**

ITC on GST/जीएसटी पर इनपुट कर क्रेडिट	ITC on GST Cess/जीएसटी उपकर कर क्रेडिट
100%	NA

**Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
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S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Dinesh Kumar Bhagat	560026,MANAGER STORES,- GI Bharat Heavy Electricals Limited Electronics Division, Mysore Road, Bangalore - 560026 Karnataka India	1	30

### Alarm Annunciator LED Facia Cabinet 24W (BHEL MATERIAL CODE: SN0659431491) ( 1 pieces )

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

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ITC on GST/जीएसटी पर इनपुट कर क्रेडिट	ITC on GST Cess/जीएसटी उपकर कर क्रेडिट
100%	NA

### Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Dinesh Kumar Bhagat	560026,MANAGER STORES,- GI Bharat Heavy Electricals Limited Electronics Division, Mysore Road, Bangalore - 560026 Karnataka India	1	30

### Alarm Annunciator LED Facia Cabinet 30W (BHEL MATERIAL CODE: SN0659431505) ( 1 pieces )

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

### Technical Specifications/तकनीकी विशिष्टियाँ

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ITC on GST/जीएसटी पर इनपुट कर क्रेडिट	ITC on GST Cess/जीएसटी उपकर कर क्रेडिट
100%	NA

**Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Dinesh Kumar Bhagat	560026,MANAGER STORES,- GI Bharat Heavy Electricals Limited Electronics Division, Mysore Road, Bangalore - 560026 Karnataka India	1	30

**Alarm Annunciator LED Facia Cabinet 48W (BHEL MATERIAL CODE: SN0659431513) ( 1 pieces )**

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

**Technical Specifications/तकनीकी विशिष्टियाँ**

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ITC on GST/जीएसटी पर इनपुट कर क्रेडिट	ITC on GST Cess/जीएसटी उपकर कर क्रेडिट
100%	NA

**Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Dinesh Kumar Bhagat	560026,MANAGER STORES,- GI Bharat Heavy Electricals Limited Electronics Division, Mysore Road, Bangalore - 560026 Karnataka India	1	30

### Alarm Annunciator LED Facia Cabinet 49W (BHEL MATERIAL CODE: SN0659431653) ( 8 pieces )

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

#### Technical Specifications/तकनीकी विशिष्टियाँ

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ITC on GST/जीएसटी पर इनपुट कर क्रेडिट	ITC on GST Cess/जीएसटी उपकर कर क्रेडिट
100%	NA

#### Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Dinesh Kumar Bhagat	560026,MANAGER STORES,- GI Bharat Heavy Electricals Limited Electronics Division, Mysore Road, Bangalore - 560026 Karnataka India	8	30

### Alarm Annunciator LED Facia Cabinet 48W (BHEL MATERIAL CODE: SN0659431114) ( 10 pieces )

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

#### Technical Specifications/तकनीकी विशिष्टियाँ



Buyer Specification  
Document/क्रेता विशिष्टि दस्तावेज़

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**Input Tax Credit(ITC)/इनपुट कर क्रेडिट(आईटीसी) and/ तथा Reverse Charge(RCM)/रिवर्स प्रभार (आरसीएम) Details**

ITC on GST/जीएसटी पर इनपुट कर क्रेडिट	ITC on GST Cess/जीएसटी उपकर कर क्रेडिट
100%	NA

**Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा**

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Dinesh Kumar Bhagat	560026,MANAGER STORES,- GI Bharat Heavy Electricals Limited Electronics Division, Mysore Road, Bangalore - 560026 Karnataka India	10	30

**Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें**

**1. Scope of Supply**

Scope of supply (Bid price to include all cost components) : Only supply of Goods

**2. Generic**

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

**3. Generic**

Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.

**4. Generic**

Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.

**5. Generic**

Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.

## 6. Generic

While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screenshot of GST portal confirming payment of GST.

## 7. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

### A. PRE-QUALIFICATION REQUIREMENT (PQR)

Bidder should submit documentary evidence for PQC, for evaluating the eligibility of Bidder as per **Buyer s pecification document** in this bid.

### B. Payment Timelines:

Type of Bidder	Payment Terms (Number of days )
Micro & Small Enterprises (MSEs)	45 days from CRAC date
Medium Enterprises	60 days from CRAC date
Non MSME	90 days from CRAC date

**C. Risk Purchase** - In case of failure of supplier, BHEL at its discretion may make purchase of the material s/ services not supplied/ rendered in time at the RISK & COST of the supplier. Under such situation, the supplier who fails to supply the goods in time shall be wholly liable to make good to BHEL any loss due to risk purchase. In case of invocation of risk purchase, BHEL shall get Balance work/ supply done at supplier risk and cost, which shall be recovered from supplier out of dues of this contract, any other contract with BHEL and balance amount, if any shall be required to be deposited by supplier.

### D. Contact Details:

Engineering Dept.	Tender Dept.
Mr. Gajendra Singh/ Manager	Mr. Dinesh Kumar Bhagat/ Manager
e-mail: gajendrasingh@bhel.in	e-mail: dkbhagat@bhel.in
	Tel: 080 26998108

## Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. Any clause(s) incorporated by the Buyer regarding following shall be treated as null and void and would not be considered as part of bid:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.


3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process.
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.


Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.


[This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

**---Thank You/धन्यवाद---**

		<div><div><div>ਬੀ ਐਚ ਡੀ ਐਲ</div><div></div><div>A4 – 10</div></div></div>	<div>PRE-QUALIFICATIONS REQUIREMENT FOR ALARM ANNUNCIATOR LED FACIA CABINET(WITHOUT LOGIC CARD)</div>	PQR-CD-1276-410-001		
				REV. NO. 00		
				PAGE 01 OF 03		
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				CHECKED BY JANAK KUMAR		APPROVED BY MALA SIBOO
			PREPARED GAJENDRA SINGH	ISSUED 428 ENGG	DATE 20.02.2024	

		<div><div><div>ભી પ્લેક ડી પ્લે</div><div></div><div>A4 – 10</div></div><div>PRE-QUALIFICATIONS REQUIREMENT FOR ALARM ANNUNCIATOR LED FACIA CABINET(WITHOUT LOGIC CARD)</div></div>	<div>PQR-CD-1276-410-001</div> <div>REV. NO. 00</div> <div>PAGE 02 OF 03</div>																																				
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<b>COPY RIGHT AND CONFIDENTIAL</b> THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.		<p align="center"><b>Pre-Qualification Requirements (PQR) of Bidders for as a part of Offer:</b></p> <ol style="list-style-type: none"> <li>1. The bidder or its OEM should have supplied Alarm Annunciator LED facia cabinet (with or without logic card) having supply voltage of 24VDC to alarm facias and layout same or similar type for minimum 10% of bid quantity catering to control system for any power plant or process industry in at least one of the last three Financial years before the bid opening date. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year.</li> <li>2. Along with the documents related to PQR above, following details shall also be included in the Offer: <ol style="list-style-type: none"> <li>2.1 Technical literature / Manuals of offered Alarm Annunciator LED facia cabinet.</li> <li>2.2 Unpriced Purchase Order copies.</li> </ol> </li> <li>3. Name &amp; registered address of the Indian branch office or Indian representative for support of services after sales with Organization chart.</li> <li>4. Details of Manufacturing, testing &amp; inspection facility.</li> <li>5. Bidder shall have facility in India for servicing offered Alarm Annunciator LED facia cabinet, Stocking of Spares etc. Submit these details.</li> <li>6. If Bidder is not Original Equipment Manufacturer (OEM), then Bidder to include authorization letter from OEM. This authorization letter provided by OEM to Bidder shall indicate the Type and Duration of the agreement.</li> <li>7. Final acceptance of the bidder shall be subject to end customer approval.</li> </ol> <p><b>Important note: In case Bidder does not submit details mentioned in above clauses or meet the requirements of Pre-qualification requirements, Offers will be summarily rejected and bidder's technical offers/proposals will not be evaluated.</b></p>		

**BHEL MATERIAL CODE: SN0659431483**

**MATERIAL: Alarm Annunciator LED Facia Cabinet 15W**

**DESCRIPTION:**

Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 15 Windows (without logic card).

Color shade: Opaline green to shade 275 of IS:5 (semi-glossy).

No. of windows: 15 Numbers (Colour: AMBER & RED).

Layout: 3 Rows x 5 columns.

Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.


Window LEDs: Cluster of super bright LEDs.

Actuator Voltage: 24V DC from BHEL DCS.

Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.

All required mounting brackets to be supplied.

For further details refer specification number PS4102132 Item number-01.

		<div><div><div>बि एच ई प्ल</div><div></div><div>A4 – 10</div></div></div>	<div>PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT</div>		<div>PS4102132</div> <div>REV. NO. 00</div> <div>PAGE 01 OF 09</div>	
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			CHECKED BY JANAK KUMAR		APPROVED BY MALA SIBOO	
			PREPARED GAJENDRA SINGH	ISSUED 428 ENGG	DATE 29-01-2024	

ಗಜೇಂದ್ರ ಸಿಂಗ್, ಮುಖ್ಯಮಂಡಳಿ/ನಿ.ಉ.-ಎಂ.ಟಿ.-ಸಿ.ಡಿ.

गजेंद्र सिंह, प्रबंधक/सी.ई.-इंजी.-सी.डी.

GAJENDRA SINGH, MANAGER/CE-ENGG-CD

BHEL-EDN, MYSURU ROAD, BENGALURU-560026





## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT

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## REVISION HISTORY SHEET

REV NO.	DATE	NATURE OF CHANGE	REASON	PREPARED BY	APPROVED BY
00	29/01/2024	FIRST ISSUE	-----	GAJENDRA SINGH	MALA SIBOO

गजेंद्र सिंह, प्रबंधक/सी.ए. - ६०००२६ - सी.डी.  
GAJENDRA SINGH, MANAGER/CE-ENGG-CD  
BHEL-EDN, MYSURU ROAD, BENGALURU-560026

## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT

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## TECHNICAL SPECIFICATIONS & GUIDELINES FOR QUOTATION

This specification covers the requirements of ALARM ANNUNCIATOR LED FACIA CABINETS.

## 1. TECHNICAL REQUIREMENTS FOR ITEM NO.-01

Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 15 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 15 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 5 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 380mm.	YES/ NO	
7.	Maximum Bezel width: 450mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 15 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431483	YES/ NO	

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## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT

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## **TECHNICAL REQUIREMENTS FOR ITEM NO.-02**

Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 18 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 18 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 6 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 380mm.	YES/ NO	
7.	Maximum Bezel width: 450mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 18 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431530	YES/ NO	

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GAJENDRA SINGH, MANAGER/CE-ENGG-CD  
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PURCHASE SPECIFICATION FOR  
ALARM ANNUNCIATOR LED FACIA  
CABINET FOR YADADRI PROJECT

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TECHNICAL REQUIREMENTS FOR ITEM NO.-03

Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 21 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 21 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 7 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 440mm.	YES/ NO	
7.	Maximum Bezel width: 500mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 21 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431521	YES/ NO	


		 <b>भारत भारती</b> <b>A4 - 10</b>	<b>PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT</b>	PS4102132																																																																				
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<p align="center"><b><u>TECHNICAL REQUIREMENTS FOR ITEM NO.-04</u></b></p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>SPECIFICATIONS</th> <th>SUPPLIERS COMPLIANCE</th> <th>REMARKS, IF ANY</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 24 Windows (without logic card).</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>2.</td> <td>Color shade Opaline green to shade 275 of IS:5 (semi-glossy).</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>3.</td> <td>No. of windows: 24 Numbers (Colour: AMBER &amp; RED).</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>4.</td> <td>Layout: 3 Rows x 8 columns.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>5.</td> <td>Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>6.</td> <td>Maximum Case width: 490mm.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>7.</td> <td>Maximum Bezel width: 550mm.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>8.</td> <td>Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>9.</td> <td>Window LEDs: Cluster of super bright LEDs.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>10.</td> <td>Actuator Voltage: 24V DC from BHEL DCS.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>11.</td> <td>Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 24 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>12.</td> <td>Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>13.</td> <td>Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>14.</td> <td>All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>15.</td> <td>Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>16.</td> <td>Material Code : SN0659431491</td> <td>YES/ NO</td> <td></td> </tr> </tbody> </table>					Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY	1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 24 Windows (without logic card).	YES/ NO		2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO		3.	No. of windows: 24 Numbers (Colour: AMBER & RED).	YES/ NO		4.	Layout: 3 Rows x 8 columns.	YES/ NO		5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO		6.	Maximum Case width: 490mm.	YES/ NO		7.	Maximum Bezel width: 550mm.	YES/ NO		8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO		9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO		10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO		11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 24 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO		12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO		13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO		14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO		15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO		16.	Material Code : SN0659431491	YES/ NO	
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11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 24 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO																																																																						
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO																																																																						
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15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO																																																																						
16.	Material Code : SN0659431491	YES/ NO																																																																						

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		<div><div><div>भारत भारी इलेक्ट्रिकल्स लिमिटेड</div><div></div><div>A4 – 10</div></div></div>	<div>PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT</div>	PS4102132	
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					<div>3. <b>MARKING:</b> Each cabinet shall bear material code, manufacturer’s name, trade mark (if applicable), supply voltage etc.</div>
					<div>4. <b>PACKING:</b> The item shall be properly packed to ensure that there are no damages / dislocation of parts during transit.</div>
					<div>5. <b>ACCEPTANCE CRITERIA:</b></div>
					<div>5.1 Dispatch clearance by purchaser (BHEL-EDN) after verification &amp; acceptance of test reports/ certificate submitted by supplier. Any other document as found necessary can be asked before issuing dispatch clearance. Bidder to furnish the required documents as demanded.</div>
					<div>5.2 On receipt of item at BHEL-EDN, final acceptance will be by quality services of purchaser (BHEL-EDN), verifying the conformance of item to this purchase specification, physical verification, inspection &amp; functional testing of each item as per specification. Subsequently, they shall be further inspected at the stage of assembly of panels at works, and then all (100%) annunciator boxes shall be functionally tested during system testing of the panels. If, during any of these stages, any annunciator boxes are found to be non-conforming to specifications, or functionally defective, they shall be rectified/replaced by the manufacturer representative without any financial implications, and in the shortest possible time-frame.</div>



		<div><div><div>ਬੀ ਐਚ ਡੀ ਐਲ</div><div></div><div>A4 – 10</div></div></div>	<div>PRE-QUALIFICATIONS REQUIREMENT FOR ALARM ANNUNCIATOR LED FACIA CABINET(WITHOUT LOGIC CARD)</div>		PQR-CD-1276-410-001	
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			CHECKED BY		APPROVED BY	
			JANAK KUMAR		MALA SIBOO	
			PREPARED	ISSUED	DATE	
			GAJENDRA SINGH	428 ENGG	20.02.2024	

		<div><div><div>बी एच ई एल</div><div></div><div>A4 – 10</div></div><div>PRE-QUALIFICATIONS REQUIREMENT FOR ALARM ANNUNCIATOR LED FACIA CABINET(WITHOUT LOGIC CARD)</div></div>	<div>PQR-CD-1276-410-001</div> <div>REV. NO. 00</div> <div>PAGE 02 OF 03</div>																																				
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		 A4 – 10	<b>PRE-QUALIFICATIONS REQUIREMENT FOR ALARM ANNUNCIATOR LED FACIA CABINET(WITHOUT LOGIC CARD)</b>	PQR-CD-1276-410-001 REV. NO. 00 PAGE 03 OF 03
<b>COPY RIGHT AND CONFIDENTIAL</b> THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.		<p align="center"><b>Pre-Qualification Requirements (PQR) of Bidders for as a part of Offer:</b></p> <ol style="list-style-type: none"> <li>1. The bidder or its OEM should have supplied Alarm Annunciator LED facia cabinet (with or without logic card) having supply voltage of 24VDC to alarm facias and layout same or similar type for minimum 10% of bid quantity catering to control system for any power plant or process industry in at least one of the last three Financial years before the bid opening date. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year.</li> <li>2. Along with the documents related to PQR above, following details shall also be included in the Offer: <ol style="list-style-type: none"> <li>2.1 Technical literature / Manuals of offered Alarm Annunciator LED facia cabinet.</li> <li>2.2 Unpriced Purchase Order copies.</li> </ol> </li> <li>3. Name &amp; registered address of the Indian branch office or Indian representative for support of services after sales with Organization chart.</li> <li>4. Details of Manufacturing, testing &amp; inspection facility.</li> <li>5. Bidder shall have facility in India for servicing offered Alarm Annunciator LED facia cabinet, Stocking of Spares etc. Submit these details.</li> <li>6. If Bidder is not Original Equipment Manufacturer (OEM), then Bidder to include authorization letter from OEM. This authorization letter provided by OEM to Bidder shall indicate the Type and Duration of the agreement.</li> <li>7. Final acceptance of the bidder shall be subject to end customer approval.</li> </ol> <p><b>Important note: In case Bidder does not submit details mentioned in above clauses or meet the requirements of Pre-qualification requirements, Offers will be summarily rejected and bidder's technical offers/proposals will not be evaluated.</b></p>		

**BHEL MATERIAL CODE: SN0659431530**

**MATERIAL: Alarm Annunciator LED Facia Cabinet 18W**

**DESCRIPTION:**

Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 18 Windows (without logic card).

Color shade: Opaline green to shade 275 of IS:5 (semi-glossy).

No. of windows: 18 Numbers (Colour: AMBER & RED).

Layout: 3 Rows x 6 columns.

Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.

Window LEDs: Cluster of super bright LEDs.


Actuator Voltage: 24V DC from BHEL DCS.

Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.

All required mounting brackets to be supplied.

For further details refer specification number PS4102132 Item number-02.



		<div><div><div>बी एच ई एल</div><div></div><div>A4 – 10</div></div><div><div>PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT</div></div><div><div>PS4102132</div><div>REV. NO. 00</div><div>PAGE 02 OF 09</div></div></div>																								
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## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT

PS4102132

REV. NO. 00

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## TECHNICAL SPECIFICATIONS & GUIDELINES FOR QUOTATION



This specification covers the requirements of ALARM ANNUNCIATOR LED FACIA CABINETS.

## 1. TECHNICAL REQUIREMENTS FOR ITEM NO.-01

Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 15 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 15 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 5 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 380mm.	YES/ NO	
7.	Maximum Bezel width: 450mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 15 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431483	YES/ NO	

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<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.8em; margin-right: 10px;"> <b>COPY RIGHT AND CONFIDENTIAL</b>            THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.         </div> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="text-align: center;">   <b>A4 – 10</b> </div> <div style="margin-left: 20px;"> <b>PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT</b> </div> </div> </div> </div>	<div style="display: flex; justify-content: space-between;"> <div>   <b>A4 – 10</b> </div> <div> <b>PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT</b> </div> </div>	PS4102132 REV. NO. 00 PAGE 04 OF 09																																																																				
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	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Sr. No.</th> <th style="width: 65%;">SPECIFICATIONS</th> <th style="width: 15%;">SUPPLIERS COMPLIANCE</th> <th style="width: 15%;">REMARKS, IF ANY</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 18 Windows (without logic card).</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>2.</td> <td>Color shade Opaline green to shade 275 of IS:5 (semi-glossy).</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>3.</td> <td>No. of windows: 18 Numbers (Colour: AMBER &amp; RED).</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>4.</td> <td>Layout: 3 Rows x 6 columns.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>5.</td> <td>Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>6.</td> <td>Maximum Case width: 380mm.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>7.</td> <td>Maximum Bezel width: 450mm.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>8.</td> <td>Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>9.</td> <td>Window LEDs: Cluster of super bright LEDs.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>10.</td> <td>Actuator Voltage: 24V DC from BHEL DCS.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>11.</td> <td>Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 18 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>12.</td> <td>Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>13.</td> <td>Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>14.</td> <td>All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>15.</td> <td>Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.</td> <td>YES/ NO</td> <td></td> </tr> <tr> <td>16.</td> <td>Material Code : SN0659431530</td> <td>YES/ NO</td> <td></td> </tr> </tbody> </table>			Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY	1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 18 Windows (without logic card).	YES/ NO		2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO		3.	No. of windows: 18 Numbers (Colour: AMBER & RED).	YES/ NO		4.	Layout: 3 Rows x 6 columns.	YES/ NO		5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO		6.	Maximum Case width: 380mm.	YES/ NO		7.	Maximum Bezel width: 450mm.	YES/ NO		8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO		9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO		10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO		11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 18 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO		12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO		13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO		14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO		15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO		16.	Material Code : SN0659431530	YES/ NO
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## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT

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### **TECHNICAL REQUIREMENTS FOR ITEM NO.-03**

Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 21 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 21 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 7 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 440mm.	YES/ NO	
7.	Maximum Bezel width: 500mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 21 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431521	YES/ NO	


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गजेंद्र सिंह, प्रबंधक/सी.ई.-इंजी.-सी.डी.  
GAJENDRA SINGH, MANAGER/CE-ENGG-CD  
BHEL-EDN, MYSURU ROAD, BENGALURU-560026


		 <b>A4 – 10</b>	<b>PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT</b>	PS4102132																																																																				
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		<div><div><div>ਬੀ ਐਚ ਡੀ ਐਲ</div><div></div><div>A4 – 10</div></div></div>	<div>PRE-QUALIFICATIONS REQUIREMENT FOR ALARM ANNUNCIATOR LED FACIA CABINET(WITHOUT LOGIC CARD)</div>	PQR-CD-1276-410-001		
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				CHECKED BY JANAK KUMAR		APPROVED BY MALA SIBOO
			PREPARED GAJENDRA SINGH	ISSUED 428 ENGG	DATE 20.02.2024	

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<b>COPY RIGHT AND CONFIDENTIAL</b> THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.		<p style="text-align: center;"><b>Pre-Qualification Requirements (PQR) of Bidders for as a part of Offer:</b></p> <ol style="list-style-type: none"> <li>1. The bidder or its OEM should have supplied Alarm Annunciator LED facia cabinet (with or without logic card) having supply voltage of 24VDC to alarm facias and layout same or similar type for minimum 10% of bid quantity catering to control system for any power plant or process industry in at least one of the last three Financial years before the bid opening date. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year.</li> <li>2. Along with the documents related to PQR above, following details shall also be included in the Offer: <ol style="list-style-type: none"> <li>2.1 Technical literature / Manuals of offered Alarm Annunciator LED facia cabinet.</li> <li>2.2 Unpriced Purchase Order copies.</li> </ol> </li> <li>3. Name &amp; registered address of the Indian branch office or Indian representative for support of services after sales with Organization chart.</li> <li>4. Details of Manufacturing, testing &amp; inspection facility.</li> <li>5. Bidder shall have facility in India for servicing offered Alarm Annunciator LED facia cabinet, Stocking of Spares etc. Submit these details.</li> <li>6. If Bidder is not Original Equipment Manufacturer (OEM), then Bidder to include authorization letter from OEM. This authorization letter provided by OEM to Bidder shall indicate the Type and Duration of the agreement.</li> <li>7. Final acceptance of the bidder shall be subject to end customer approval.</li> </ol> <p><b>Important note: In case Bidder does not submit details mentioned in above clauses or meet the requirements of Pre-qualification requirements, Offers will be summarily rejected and bidder's technical offers/proposals will not be evaluated.</b></p>		



**BHEL MATERIAL CODE: SN0659431521**

**MATERIAL: Alarm Annunciator LED Facia Cabinet 21W**

**DESCRIPTION:**

Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 21 Windows (without logic card).

Color shade: Opaline green to shade 275 of IS:5 (semi-glossy).

No. of windows: 21 Numbers (Colour: AMBER & RED).

Layout: 3 Rows x 7 columns.

Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.


Window LEDs: Cluster of super bright LEDs.

Actuator Voltage: 24V DC from BHEL DCS.

Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.

All required mounting brackets to be supplied.

For further details refer specification number PS4102132 Item number-03.


		<div><div><div>बि एच ई प्ल</div><div></div><div>A4 – 10</div></div></div>	<div>PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT</div>		<div>PS4102132</div> <div>REV. NO. 00</div> <div>PAGE 01 OF 09</div>	
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			CHECKED BY JANAK KUMAR		APPROVED BY MALA SIBOO	
			PREPARED GAJENDRA SINGH	ISSUED 428 ENGG	DATE 29-01-2024	

गजेंद्र सिंह, प्रबंधक/सी.ई.-इंजी.-सी.डी.

गजेंद्र सिंह, प्रबंधक/सी.ई.-इंजी.-सी.डी.

GAJENDRA SINGH, MANAGER/CE-ENGG-CD

BHEL-EDN, MYSURU ROAD, BENGALURU-560026

		<div><div><div>बी एच ई एल</div><div></div><div>A4 – 10</div></div><div><div>PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT</div></div><div><div>PS4102132</div><div>REV. NO. 00</div><div>PAGE 02 OF 09</div></div></div>																								
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GAJENDRA SINGH, MANAGER/CE-ENGG-CD  
BHEL-EDN, MYSURU ROAD, BENGALURU-560026

## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT

PS4102132

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## TECHNICAL SPECIFICATIONS & GUIDELINES FOR QUOTATION

This specification covers the requirements of ALARM ANNUNCIATOR LED FACIA CABINETS.

## **1. TECHNICAL REQUIREMENTS FOR ITEM NO.-01**

Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 15 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 15 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 5 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 380mm.	YES/ NO	
7.	Maximum Bezel width: 450mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 15 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431483	YES/ NO	

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## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT

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## **TECHNICAL REQUIREMENTS FOR ITEM NO.-02**

Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 18 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 18 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 6 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 380mm.	YES/ NO	
7.	Maximum Bezel width: 450mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 18 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431530	YES/ NO	

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## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT

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### **TECHNICAL REQUIREMENTS FOR ITEM NO.-03**

Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 21 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 21 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 7 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 440mm.	YES/ NO	
7.	Maximum Bezel width: 500mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 21 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431521	YES/ NO	


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		 <b>भारत भारती</b> <b>A4 - 10</b>	<b>PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT</b>	PS4102132																																																																				
				REV. NO. 00																																																																				
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<b>COPY RIGHT AND CONFIDENTIAL</b> THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.		<p><b>2. <u>SUPPLIER DOCUMENT REQUIREMENT SCHEDULE:</u></b></p> <p><b>2.1 BIDDING STAGE</b>  Supplier shall provide the following information along with the offer. Bids without detailed and point wise compliance statement / documents required, will not be considered for further processing.</p> <ol style="list-style-type: none"> <li>Compliance to this specification and material description in the <b>Request For Quotation</b>/bid details. List of deviations, if any, shall be clearly brought out, clause number-wise with reasons thereof. If there are no deviations, the same shall be certified.</li> <li>Catalogues, Technical Data sheets, mechanical dimensional drawings, cutout details, mounting arrangement, termination details etc. shall be submitted.</li> </ol> <p><b>3. <u>MARKING:</u></b> Each cabinet shall bear material code, manufacturer's name, trade mark (if applicable), supply voltage etc.</p> <p><b>4. <u>PACKING:</u></b> The item shall be properly packed to ensure that there are no damages / dislocation of parts during transit.</p> <p><b>5. <u>ACCEPTANCE CRITERIA:</u></b></p> <ol style="list-style-type: none"> <li>Dispatch clearance by purchaser (BHEL-EDN) after verification &amp; acceptance of test reports/ certificate submitted by supplier. Any other document as found necessary can be asked before issuing dispatch clearance. Bidder to furnish the required documents as demanded.</li> <li>On receipt of item at BHEL-EDN, final acceptance will be by quality services of purchaser (BHEL-EDN), verifying the conformance of item to this purchase specification, physical verification, inspection &amp; functional testing of each item as per specification. Subsequently, they shall be further inspected at the stage of assembly of panels at works, and then all (100%) annunciator boxes shall be functionally tested during system testing of the panels. If, during any of these stages, any annunciator boxes are found to be non-conforming to specifications, or functionally defective, they shall be rectified/replaced by the manufacturer representative without any financial implications, and in the shortest possible time-frame.</li> </ol>		

		<div><div><div>ਬੀ ਐਚ ਡੀ ਐਲ</div><div></div><div>A4 – 10</div></div></div>	<div>PRE-QUALIFICATIONS REQUIREMENT FOR ALARM ANNUNCIATOR LED FACIA CABINET(WITHOUT LOGIC CARD)</div>	PQR-CD-1276-410-001		
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				CHECKED BY JANAK KUMAR		APPROVED BY MALA SIBOO
			PREPARED GAJENDRA SINGH	ISSUED 428 ENGG	DATE 20.02.2024	

		<div><div><div>बी एच डी एल</div><div></div><div>A4 – 10</div></div><div>PRE-QUALIFICATIONS REQUIREMENT FOR ALARM ANNUNCIATOR LED FACIA CABINET(WITHOUT LOGIC CARD)</div></div>	<div>PQR-CD-1276-410-001</div> <div>REV. NO. 00</div> <div>PAGE 02 OF 03</div>																																				
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**BHEL MATERIAL CODE: SN0659431491**

**MATERIAL: Alarm Annunciator LED Facia Cabinet 24W**

**DESCRIPTION:**

Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 24 Windows (without logic card).

Color shade: Opaline green to shade 275 of IS:5 (semi-glossy).

No. of windows: 24 Numbers (Colour: AMBER & RED).

Layout: 3 Rows x 8 columns.

Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.


Window LEDs: Cluster of super bright LEDs.

Actuator Voltage: 24V DC from BHEL DCS.

Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.

All required mounting brackets to be supplied.

For further details refer specification number PS4102132 Item number-04.


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			CHECKED BY JANAK KUMAR		APPROVED BY MALA SIBOO	
			PREPARED GAJENDRA SINGH	ISSUED 428 ENGG	DATE 29-01-2024	

गजेंद्र सिंह, प्रबंधक/सी.ई.-इंजी.-सी.डी.

गजेंद्र सिंह, प्रबंधक/सी.ई.-इंजी.-सी.डी.

GAJENDRA SINGH, MANAGER/CE-ENGG-CD

BHEL-EDN, MYSURU ROAD, BENGALURU-560026

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## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT

PS4102132

REV. NO. 00

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## TECHNICAL SPECIFICATIONS & GUIDELINES FOR QUOTATION

This specification covers the requirements of ALARM ANNUNCIATOR LED FACIA CABINETS.

## 1. TECHNICAL REQUIREMENTS FOR ITEM NO.-01

Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 15 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 15 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 5 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 380mm.	YES/ NO	
7.	Maximum Bezel width: 450mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 15 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431483	YES/ NO	

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## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT

PS4102132

REV. NO. 00

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## **TECHNICAL REQUIREMENTS FOR ITEM NO.-02**

Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 18 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 18 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 6 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 380mm.	YES/ NO	
7.	Maximum Bezel width: 450mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 18 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431530	YES/ NO	


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गजेंद्र सिंह, प्रबंधक/सी.ई.-इंजी.-सी.डी.  
GAJENDRA SINGH, MANAGER/CE-ENGG-CD  
BHEL-EDN, MYSURU ROAD, BENGALURU-560026

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<b><u>TECHNICAL REQUIREMENTS FOR ITEM NO.-03</u></b>			
Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 21 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 21 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 7 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 440mm.	YES/ NO	
7.	Maximum Bezel width: 500mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 21 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431521	YES/ NO	


		 <b>भारत भारती</b> <b>A4 - 10</b>	<b>PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT</b>	PS4102132																																																																				
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				PAGE 06 OF 09																																																																				
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		<div><div><div>ਬੀ ਐਚ ਡੀ ਐਲ</div><div></div><div>A4 – 10</div></div></div>	<div>PRE-QUALIFICATIONS REQUIREMENT FOR ALARM ANNUNCIATOR LED FACIA CABINET(WITHOUT LOGIC CARD)</div>	PQR-CD-1276-410-001		
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				CHECKED BY JANAK KUMAR		APPROVED BY MALA SIBOO
			PREPARED GAJENDRA SINGH	ISSUED 428 ENGG	DATE 20.02.2024	



		<div><div><div>बी एच ई एल</div><div></div><div>A4 – 10</div></div><div>PRE-QUALIFICATIONS REQUIREMENT FOR ALARM ANNUNCIATOR LED FACIA CABINET(WITHOUT LOGIC CARD)</div></div>	<div>PQR-CD-1276-410-001</div> <div>REV. NO. 00</div> <div>PAGE 02 OF 03</div>																																				
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		 A4 – 10	<b>PRE-QUALIFICATIONS REQUIREMENT FOR ALARM ANNUNCIATOR LED FACIA CABINET(WITHOUT LOGIC CARD)</b>	PQR-CD-1276-410-001 REV. NO. 00 PAGE 03 OF 03
<b>COPY RIGHT AND CONFIDENTIAL</b> THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.		<p align="center"><b>Pre-Qualification Requirements (PQR) of Bidders for as a part of Offer:</b></p> <ol style="list-style-type: none"> <li>1. The bidder or its OEM should have supplied Alarm Annunciator LED facia cabinet (with or without logic card) having supply voltage of 24VDC to alarm facias and layout same or similar type for minimum 10% of bid quantity catering to control system for any power plant or process industry in at least one of the last three Financial years before the bid opening date. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year.</li> <li>2. Along with the documents related to PQR above, following details shall also be included in the Offer: <ol style="list-style-type: none"> <li>2.1 Technical literature / Manuals of offered Alarm Annunciator LED facia cabinet.</li> <li>2.2 Unpriced Purchase Order copies.</li> </ol> </li> <li>3. Name &amp; registered address of the Indian branch office or Indian representative for support of services after sales with Organization chart.</li> <li>4. Details of Manufacturing, testing &amp; inspection facility.</li> <li>5. Bidder shall have facility in India for servicing offered Alarm Annunciator LED facia cabinet, Stocking of Spares etc. Submit these details.</li> <li>6. If Bidder is not Original Equipment Manufacturer (OEM), then Bidder to include authorization letter from OEM. This authorization letter provided by OEM to Bidder shall indicate the Type and Duration of the agreement.</li> <li>7. Final acceptance of the bidder shall be subject to end customer approval.</li> </ol> <p><b>Important note: In case Bidder does not submit details mentioned in above clauses or meet the requirements of Pre-qualification requirements, Offers will be summarily rejected and bidder's technical offers/proposals will not be evaluated.</b></p>		

**BHEL MATERIAL CODE: SN0659431505**

**MATERIAL: Alarm Annunciator LED Facia Cabinet 30W**

**DESCRIPTION:**

Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 30 Windows (without logic card).

Color shade: Opaline green to shade 275 of IS:5 (semi-glossy).

No. of windows: 30 Numbers (Colour: AMBER & RED).

Layout: 5 Rows x 6 columns.

Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.


Window LEDs: Cluster of super bright LEDs.

Actuator Voltage: 24V DC from BHEL DCS.

Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.

All required mounting brackets to be supplied.

For further details refer specification number PS4102132 Item number-05.


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			CHECKED BY JANAK KUMAR		APPROVED BY MALA SIBOO	
			PREPARED GAJENDRA SINGH	ISSUED 428 ENGG	DATE 29-01-2024	

गजेंद्र सिंह, प्रबंधक/सी.ई.-इंजी.-सी.डी.

गजेंद्र सिंह, प्रबंधक/सी.ई.-इंजी.-सी.डी.

GAJENDRA SINGH, MANAGER/CE-ENGG-CD

BHEL-EDN, MYSURU ROAD, BENGALURU-560026

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## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT

PS4102132

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## TECHNICAL SPECIFICATIONS & GUIDELINES FOR QUOTATION

This specification covers the requirements of ALARM ANNUNCIATOR LED FACIA CABINETS.

## 1. TECHNICAL REQUIREMENTS FOR ITEM NO.-01

Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 15 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 15 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 5 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 380mm.	YES/ NO	
7.	Maximum Bezel width: 450mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 15 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431483	YES/ NO	

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## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT

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## **TECHNICAL REQUIREMENTS FOR ITEM NO.-02**

Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 18 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 18 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 6 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 380mm.	YES/ NO	
7.	Maximum Bezel width: 450mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 18 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431530	YES/ NO	

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गजेंद्र सिंह, प्रबंधक/सी.ई.-इंजी.-सी.डी.  
GAJENDRA SINGH, MANAGER/CE-ENGG-CD  
BHEL-EDN, MYSURU ROAD, BENGALURU-560026

## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT

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### **TECHNICAL REQUIREMENTS FOR ITEM NO.-03**


Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 21 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 21 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 7 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 440mm.	YES/ NO	
7.	Maximum Bezel width: 500mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 21 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431521	YES/ NO	

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गजेंद्र सिंह, प्रबंधक/सी.ई.-इंजी.-सी.डी.  
GAJENDRA SINGH, MANAGER/CE-ENGG-CD  
BHEL-EDN, MYSURU ROAD, BENGALURU-560026





		 <b>भारत भारती</b> <b>A4 - 10</b>	<b>PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT</b>	PS4102132																																																																				
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				PAGE 06 OF 09																																																																				
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<div>2. <u>SUPPLIER DOCUMENT REQUIREMENT SCHEDULE:</u></div> <div>2.1 BIDDING STAGE</div> <div>Supplier shall provide the following information along with the offer. Bids without detailed and point wise compliance statement / documents required, will not be considered for further processing.</div> <div><div>i. Compliance to this specification and material description in the Request For Quotation/bid details. List of deviations, if any, shall be clearly brought out, clause number-wise with reasons thereof. If there are no deviations, the same shall be certified.</div><div>ii. Catalogues, Technical Data sheets, mechanical dimensional drawings, cutout details, mounting arrangement, termination details etc. shall be submitted.</div></div> <div>3. <u>MARKING:</u> Each cabinet shall bear material code, manufacturer's name, trade mark (if applicable), supply voltage etc.</div> <div>4. <u>PACKING:</u> The item shall be properly packed to ensure that there are no damages / dislocation of parts during transit.</div> <div>5. <u>ACCEPTANCE CRITERIA:</u></div> <div>5.1 Dispatch clearance by purchaser (BHEL-EDN) after verification &amp; acceptance of test reports/ certificate submitted by supplier. Any other document as found necessary can be asked before issuing dispatch clearance. Bidder to furnish the required documents as demanded.</div> <div>5.2 On receipt of item at BHEL-EDN, final acceptance will be by quality services of purchaser (BHEL-EDN), verifying the conformance of item to this purchase specification, physical verification, inspection &amp; functional testing of each item as per specification. Subsequently, they shall be further inspected at the stage of assembly of panels at works, and then all (100%) annunciator boxes shall be functionally tested during system testing of the panels. If, during any of these stages, any annunciator boxes are found to be non-conforming to specifications, or functionally defective, they shall be rectified/replaced by the manufacturer representative without any financial implications, and in the shortest possible time-frame.</div>				

		<div><div><div>ਬੀ ਐਚ ਡੀ ਐਲ</div><div></div><div>A4 – 10</div></div></div>	<div>PRE-QUALIFICATIONS REQUIREMENT FOR ALARM ANNUNCIATOR LED FACIA CABINET(WITHOUT LOGIC CARD)</div>	PQR-CD-1276-410-001		
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				CHECKED BY JANAK KUMAR		APPROVED BY MALA SIBOO
			PREPARED GAJENDRA SINGH	ISSUED 428 ENGG	DATE 20.02.2024	

		<div><div><div>बी एच ई एल</div><div></div><div>A4 – 10</div></div><div>PRE-QUALIFICATIONS REQUIREMENT FOR ALARM ANNUNCIATOR LED FACIA CABINET(WITHOUT LOGIC CARD)</div></div>	<div>PQR-CD-1276-410-001</div> <div>REV. NO. 00</div> <div>PAGE 02 OF 03</div>																																				
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		 A4 – 10	<b>PRE-QUALIFICATIONS REQUIREMENT FOR ALARM ANNUNCIATOR LED FACIA CABINET(WITHOUT LOGIC CARD)</b>	PQR-CD-1276-410-001 REV. NO. 00 PAGE 03 OF 03
<b>COPY RIGHT AND CONFIDENTIAL</b> THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.		<p align="center"><b>Pre-Qualification Requirements (PQR) of Bidders for as a part of Offer:</b></p> <ol style="list-style-type: none"> <li>The bidder or its OEM should have supplied Alarm Annunciator LED facia cabinet (with or without logic card) having supply voltage of 24VDC to alarm facias and layout same or similar type for minimum 10% of bid quantity catering to control system for any power plant or process industry in at least one of the last three Financial years before the bid opening date. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year.</li> <li>Along with the documents related to PQR above, following details shall also be included in the Offer: <ol style="list-style-type: none"> <li>Technical literature / Manuals of offered Alarm Annunciator LED facia cabinet.</li> <li>Unpriced Purchase Order copies.</li> </ol> </li> <li>Name &amp; registered address of the Indian branch office or Indian representative for support of services after sales with Organization chart.</li> <li>Details of Manufacturing, testing &amp; inspection facility.</li> <li>Bidder shall have facility in India for servicing offered Alarm Annunciator LED facia cabinet, Stocking of Spares etc. Submit these details.</li> <li>If Bidder is not Original Equipment Manufacturer (OEM), then Bidder to include authorization letter from OEM. This authorization letter provided by OEM to Bidder shall indicate the Type and Duration of the agreement.</li> <li>Final acceptance of the bidder shall be subject to end customer approval.</li> </ol> <p><b>Important note: In case Bidder does not submit details mentioned in above clauses or meet the requirements of Pre-qualification requirements, Offers will be summarily rejected and bidder's technical offers/proposals will not be evaluated.</b></p>		

**BHEL MATERIAL CODE: SN0659431513**

**MATERIAL: Alarm Annunciator LED Facia Cabinet 48W**

**DESCRIPTION:**

Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 48 Windows (without logic card).

Color shade: Opaline green to shade 275 of IS:5 (semi-glossy).

No. of windows: 48 Numbers (Colour: AMBER & RED).

Layout: 8 Rows x 6 columns.

Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.

Window LEDs: Cluster of super bright LEDs.

Actuator Voltage: 24V DC from BHEL DCS.


Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.

All required mounting brackets to be supplied.

For further details refer specification number PS4102132 Item number-06.

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		<div><div><div>बि एच ई प्ल</div><div></div><div>A4 – 10</div></div></div>	<div>PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT</div>		<div>PS4102132</div> <div>REV. NO. 00</div> <div>PAGE 01 OF 09</div>	
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			CHECKED BY JANAK KUMAR		APPROVED BY MALA SIBOO	
			PREPARED GAJENDRA SINGH	ISSUED 428 ENGG	DATE 29-01-2024	

गजेंद्र सिंह, प्रबंधक/सी.ई.-इंजी.-सी.डी.

गजेंद्र सिंह, प्रबंधक/सी.ई.-इंजी.-सी.डी.

GAJENDRA SINGH, MANAGER/CE-ENGG-CD

BHEL-EDN, MYSURU ROAD, BENGALURU-560026

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## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT

PS4102132

REV. NO. 00

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## TECHNICAL SPECIFICATIONS & GUIDELINES FOR QUOTATION

This specification covers the requirements of ALARM ANNUNCIATOR LED FACIA CABINETS.

## 1. TECHNICAL REQUIREMENTS FOR ITEM NO.-01

Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 15 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 15 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 5 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 380mm.	YES/ NO	
7.	Maximum Bezel width: 450mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 15 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431483	YES/ NO	

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## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT

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## **TECHNICAL REQUIREMENTS FOR ITEM NO.-02**

Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 18 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 18 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 6 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 380mm.	YES/ NO	
7.	Maximum Bezel width: 450mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 18 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431530	YES/ NO	

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GAJENDRA SINGH, MANAGER/CE-ENGG-CD  
BHEL-EDN, MYSURU ROAD, BENGALURU-560026

## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT

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### **TECHNICAL REQUIREMENTS FOR ITEM NO.-03**

Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 21 Windows (without logic card).	YES/ NO	
2.	Color shade Opaline green to shade 275 of IS:5 (semi-glossy).	YES/ NO	
3.	No. of windows: 21 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 3 Rows x 7 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 440mm.	YES/ NO	
7.	Maximum Bezel width: 500mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 21 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431521	YES/ NO	

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गजेंद्र सिंह, प्रबंधक/सी.ई.-इंजी.-सी.डी.  
GAJENDRA SINGH, MANAGER/CE-ENGG-CD  
BHEL-EDN, MYSURU ROAD, BENGALURU-560026

		 <b>भारत भारती</b> <b>A4 - 10</b>	<b>PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR YADADRI PROJECT</b>	PS4102132																																																																				
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		<div><div><div>ਬੀ ਐਚ ਡੀ ਐਲ</div><div></div><div>A4 – 10</div></div></div>	<div>PRE-QUALIFICATIONS REQUIREMENT FOR ALARM ANNUNCIATOR LED FACIA CABINET(WITHOUT LOGIC CARD)</div>	PQR-CD-1276-410-001		
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				CHECKED BY JANAK KUMAR		APPROVED BY MALA SIBOO
			PREPARED GAJENDRA SINGH	ISSUED 428 ENGG	DATE 20.02.2024	

		<div><div><div>बी एच ई एल</div><div></div><div>A4 – 10</div></div><div>PRE-QUALIFICATIONS REQUIREMENT FOR ALARM ANNUNCIATOR LED FACIA CABINET(WITHOUT LOGIC CARD)</div></div>	<div>PQR-CD-1276-410-001</div> <div>REV. NO. 00</div> <div>PAGE 02 OF 03</div>																																				
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<b>COPY RIGHT AND CONFIDENTIAL</b> THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.		<p style="text-align: center;"><b>Pre-Qualification Requirements (PQR) of Bidders for as a part of Offer:</b></p> <ol style="list-style-type: none"> <li>1. The bidder or its OEM should have supplied Alarm Annunciator LED facia cabinet (with or without logic card) having supply voltage of 24VDC to alarm facias and layout same or similar type for minimum 10% of bid quantity catering to control system for any power plant or process industry in at least one of the last three Financial years before the bid opening date. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year.</li> <li>2. Along with the documents related to PQR above, following details shall also be included in the Offer: <ol style="list-style-type: none"> <li>2.1 Technical literature / Manuals of offered Alarm Annunciator LED facia cabinet.</li> <li>2.2 Unpriced Purchase Order copies.</li> </ol> </li> <li>3. Name &amp; registered address of the Indian branch office or Indian representative for support of services after sales with Organization chart.</li> <li>4. Details of Manufacturing, testing &amp; inspection facility.</li> <li>5. Bidder shall have facility in India for servicing offered Alarm Annunciator LED facia cabinet, Stocking of Spares etc. Submit these details.</li> <li>6. If Bidder is not Original Equipment Manufacturer (OEM), then Bidder to include authorization letter from OEM. This authorization letter provided by OEM to Bidder shall indicate the Type and Duration of the agreement.</li> <li>7. Final acceptance of the bidder shall be subject to end customer approval.</li> </ol> <p><b>Important note: In case Bidder does not submit details mentioned in above clauses or meet the requirements of Pre-qualification requirements, Offers will be summarily rejected and bidder's technical offers/proposals will not be evaluated.</b></p>		

**BHEL MATERIAL CODE: SN0659431653**

**MATERIAL: Alarm Annunciator LED Facia Cabinet 49W**

**DESCRIPTION:**

Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 49 Windows (without logic card).

Color shade RAL # 7035 Light Grey (semi-glossy).

No. of windows: 49 Numbers (Colour: AMBER).

Layout: 7 Rows x 7 columns.

Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.


Window LEDs: Cluster of super bright LEDs.

Actuator Voltage: 24V DC from BHEL DCS.

Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.

All required mounting brackets to be supplied.

For further details refer specification number PS4102130.


		<div><div><div>ಬಿ ಎಚ್ ಡಿ ಪಲೆ</div><div></div><div>A4 – 10</div></div></div>	<div>PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR 49 WINDOWS</div>		<div>PS4102130</div> <div>REV. NO. 00</div> <div>PAGE 01 OF 04</div>	
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			PREPARED GAJENDRA SINGH	ISSUED 428 ENGG	DATE 18-01-2024	


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गजेंद्र सिंह, प्रबंधक/सी.ई.-इंजी.-सी.डी.


GAJENDRA SINGH, MANAGER/CE-ENGG-CD


BHEL-EDN, MYSURU ROAD, BENGALURU-560026


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			PREPARED GAJENDRA SINGH	ISSUED 428 ENGG	DATE 20.02.2024	

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**BHEL MATERIAL CODE: SN0659431114**

**MATERIAL: Alarm Annunciator LED Facia Cabinet 48W**

**DESCRIPTION:**

Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 48 Windows (without logic card).

Color shade RAL # 7035 Light Grey (semi-glossy).

No. of windows: 48 Numbers (Colour: AMBER).

Layout: 8 Rows x 6 columns.

Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.

Window LEDs: Cluster of super bright LEDs.


Actuator Voltage: 24V DC from BHEL DCS.

Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.

All required mounting brackets to be supplied.

For further details refer specification number PS4102131.

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			<div>PREPARED GAJENDRA SINGH</div>	<div>ISSUED 428 ENGG</div>	<div>DATE 18-01-2024</div>

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गजेंद्र सिंह, प्रबंधक/सी.ई.-इंजी.-सी.डी.

GAJENDRA SINGH, MANAGER/CE-ENGG-CD

BHEL-EDN, MYSURU ROAD, BENGALURU-560026

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## PURCHASE SPECIFICATION FOR ALARM ANNUNCIATOR LED FACIA CABINET FOR 48 WINDOWS

PS4102131

REV. NO. 00

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## TECHNICAL SPECIFICATIONS & GUIDELINES FOR QUOTATION

This specification covers the requirements of ALARM ANNUNCIATOR LED FACIA CABINET FOR 48 WINDOWS.

## 1. TECHNICAL REQUIREMENTS


Sr. No.	SPECIFICATIONS	SUPPLIERS COMPLIANCE	REMARKS, IF ANY
1.	Sheet metal Powder coated Alarm Annunciator LED Facia Cabinet for 48 Windows (without logic card).	YES/ NO	
2.	Color shade RAL # 7035 Light Grey (semi-glossy).	YES/ NO	
3.	No. of windows: 48 Numbers (Colour: AMBER & RED).	YES/ NO	
4.	Layout: 8 Rows x 6 columns.	YES/ NO	
5.	Each window Facia size will be as per Manufacturer standard [Preferably 30(H) x 55(W) mm or 30(H) x 60(W) mm].	YES/ NO	
6.	Maximum Case width: 380mm.	YES/ NO	
7.	Maximum Bezel width: 450mm.	YES/ NO	
8.	Cabinet to be supplied in fully assembled condition i.e. all wiring contacts to be terminated at plug in type TBs or Barrier type TBs.	YES/ NO	
9.	Window LEDs: Cluster of super bright LEDs.	YES/ NO	
10.	Actuator Voltage: 24V DC from BHEL DCS.	YES/ NO	
11.	Provision of change of color of facia from RED to AMBER and AMBER to RED at site need to be provided. Supplier can offer both RED and AMBER color LEDs in single facia with site selectable jumpers accessible by removing facia cover from front to change color of LEDs. Alternatively supplier can also offer front facia covers of RED and AMBER color. By default, all the facia covers will be of AMBER color. 48 numbers of interchangeable RED color facia covers to be supplied as loose items alongwith each cabinet. Facia covers must be interchangeable by removing facia cover from front.	YES/ NO	
12.	Number of terminals: 02 numbers for each window. One terminal for positive and another for negative per window. Common negative terminal is not acceptable.	YES/ NO	
13.	Mounting: Flush panel on BHEL control panel complete with mounting brackets/side clamps.	YES/ NO	
14.	All required mounting brackets to be supplied. Mounting provision of brackets shall be provided on top, bottom and each side.	YES/ NO	
15.	Inscription on photo negative type acrylic sheet/Polyester Film. Inscription details will be informed during detailed engineering.	YES/ NO	
16.	Material Code : SN0659431114	YES/ NO	

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गर्जेन्द्र सिंह, निबंधक/सी.ई.-इंजी.-सी.ओ.  
GAJENDRA SINGH, MANAGER/CE-ENGG-CD  
BHEL-EDN, MYSURU ROAD, BENGALURU-560026



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## 2. SUPPLIER DOCUMENT REQUIREMENT SCHEDULE:

### 2.1 BIDDING STAGE

Supplier shall provide the following information along with the offer. Bids without detailed and point wise compliance statement / documents required, will not be considered for further processing.

- Compliance to this specification and material description in the **Request For Quotation/bid** details. List of deviations, if any, shall be clearly brought out, clause number-wise with reasons thereof. If there are no deviations, the same shall be certified.
- Catalogues, Technical Data sheets, mechanical dimensional drawings, cutout details, mounting arrangement, termination details etc. shall be submitted.

3. **MARKING**: Each cabinet shall bear material code, manufacturer's name, trade mark (if applicable), supply voltage etc.

4. **PACKING**: The item shall be properly packed to ensure that there are no damages / dislocation of parts during transit.

### 5. ACCEPTANCE CRITERIA:

- Dispatch clearance by purchaser (BHEL-EDN) after verification & acceptance of test reports/ certificate submitted by supplier. Any other document as found necessary can be asked before issuing dispatch clearance. Bidder to furnish the required documents as demanded.
- On receipt of item at BHEL-EDN, final acceptance will be by quality services of purchaser (BHEL-EDN), verifying the conformance of item to this purchase specification, physical verification, inspection & functional testing of each item as per specification. Subsequently, they shall be further inspected at the stage of assembly of panels at works, and then all (100%) annunciator boxes shall be functionally tested during system testing of the panels. If, during any of these stages, any annunciator boxes are found to be non-conforming to specifications, or functionally defective, they shall be rectified/replaced by the manufacturer representative without any financial implications, and in the shortest possible time-frame.