

ANNEX A TO DID LETTER

Inv.Del/8/Cable Assembly/26/2022

DATED 29 SEPTEMBER 2026

SPECIFICATIONS AND GENERAL REQUIREMENTS – CABLE ASSEMBLY AC AND CABLE ASSEMBLY DC

INTRODUCTIONS.

AC and DC Cable Assembly are used for following purpose:

- a. **AC Cable Assembly.** AC cable is an essential part of GPU (Ground Power unit) which is used to provide 115/200 V AC and frequency of 400 HZ supply to platform. It contains 05 core (04 mono wires of 70mm²) conductors. Furthermore only one core consist of 4 mm², which is used to connect AC supply to platform.
- b. **DC cable Assembly.** DC cable is an essential part of GPU (Ground Power Unit) which is used to provide 28.5V DC supply to platform. It contains on 03 core (02 mono wires of 95 mm). Furthermore only one core of 16 mm.

S NO	SPECIFICATIONS/ REQUIREMENTS	MANUFACTURER 's REMARKS (COMPLIED/ NOT COMPLIED)
1.	<u>Development Requirements/ Technical Specifications</u> Detailed user requirement and technical data/ specifications for the indigenous development of Cable Assembly AC and Cable Assembly DC is attached at Annex B and C.	
2.	<u>Maintainability Requirement</u> a. Cable Assembly AC and Cable Assembly DC should be easy to maintain. b. Maintenance support/ life supportability (maintenances/ spares support) and up gradation should be assured till at least 10 years of life.	
3.	<u>Operating Parameters (if applicable).</u> Operating parameters of Cable Assembly AC and Cable Assembly DC as per Annex B & C.	
4.	<u>Material Specification (if required).</u> As per attached specifications at Annex B & C. Material conformation certificate to this affect may be provided by the firm.	
5.	<u>Environmental Condition.</u> Corrosion resistant material is to be used for complete structure. All other equipment should have low maintenance requirement and high reliability.	
6.	<u>Feasibility Study.</u> Feasibility study report of the Project along with technical offer indicating details pertaining to the proposed solution (as desired against each component) in light of user requirement.	
7.	<u>Delivery Schedule.</u> Developer will deliver all stores/ equipment/ items preferable within 12 months of Contract Effective Date (CED) i.a.w	

	contractual specifications/ requirements. Extension of delivery schedule shall remain the exclusive discretion of DITD (S).	
8.	<u>Stage Inspections.</u> The firm will allow PAC committee/ end user or nominated members by PN to carry out stage inspections to monitor the progress of the work, on 'As & When Required' basis, to verify materials and quality of material being used. Schedule for stage inspections will be formulated at later stages and will form part of the contract.	
9.	<u>Packing Standard.</u> a. The equipment shall be packed as per standard trade packing worthy for transportation by rail/ road or by air so as to ensure free from loss or damages on arrival at the ultimate destination. b. A packing note, showing the following details, should be placed on package: (1) Manufacturer Part No. (2) Serial Number of Transportation Container. (3) Full nomenclature/ description. (4) Contract number. (5) Date of packing. (6) Special storage environment/ conditions, if any. c. All stores should be marked with broad arrow pointing upwards, by stamping, painting or tallying. Each individual item of stores must bear the pattern number to facilitate identification.	
10.	<u>Terms & Conditions for Payments.</u> a. Payment terms may be mutually agreed between firm and PN at the time of contract negotiations.	
11.	<u>Warranty/ Guarantee.</u> Warranty/ Guaranty of 01 year after final acceptance of the equipment/ items.	
12.	<u>Validity of Quotation.</u> The validity of quotation should not be less than 06 months.	
13.	<u>Miscellaneous Requirements.</u> The firm will furnish the under mentioned information along with the Technical Offer: a. The firm's Sales Tax Registration Number (including Filer/ Non Filer Status). b. Valid National Tax Number (NTN).	

	c. Professional Tax Certificate (held/ not held).	
	d. Terms & Conditions for payments (whether advance payment, required/ not required).	
	e. The developer is to provide cost breakdown of financial aspects of the entire project including but not limited to following as part of Commercial offer: (1) Cost of complete documentation including operation/ maintenance/ manuals etc. (2) Cost of onboard spares, if any. (3) Cost of maintenance tools/ equipment etc, if any. (4) Any other cost.	

USER REQUIREMENT DOCUMENT (URD) – CABLE ASSEMBLY AC

S No	User Requirements/ Specifications	Manufacturer's Remarks (Complied/ Not Complied)
1.	<u>Introduction</u> AC cable is an essential part of GPU (Ground Power unit) which is used to provide 115/200 V AC and frequency of 400 HZ supply to platform. It contains 05 core (04 mono wires of 70mm ²) conductors. Furthermore only one core consist of 4 mm ² , which is used to connect AC supply to platform.	
2.	<u>Aim.</u> Its aim is to connect supply of 115/200 V AC current rating up to 400 Amps to all platform.	
3.	<u>Operational Capabilities</u> It provide AC supply from system to all platform.	
4.	<u>Product Presentation /Demonstration Trials.</u> Yes	
5.	<u>Requisite Functionalities</u> As above	
6.	<u>Details of the requirement i.e. need/ usefulness, reason for indigenous development</u> The AC Cable assembly is required as per sample.	
7.	<u>Training Requirements.</u> Nil	
8.	<u>System Software (where applicable)</u> N/A	
9.	<u>Technical Assistance</u> N/A	
10.	<u>Acceptance Criteria/ Tests/ Trials Specifications</u> FAT (Factory Acceptance test) is conducted in a lab to verify its performance and compliance with specified requirements by the manufacturer before delivering of AC cable. SAT(Site Acceptance test) is to be tested on AC cable assembly on site after installation on GPU to verify its performance and compliance with the specified requirements.	
11.	<u>Additional Information (if Any)</u> Additional Information may be extracted from the sample provided.	
12.	<u>Dimension</u> Once 15m effective length cable, per output, consisting of 5 core (04 mono wires 70mm ²) conductors Furthermore only one core consist of 4 mm ² pure copper with platform socket, complying with platform standards in force, is fitted on each 400Hz circuit.	
9.	<u>ILS Requirement (where applicable)</u> Firm will provide Integrated Parts Catalogue.	
10.	<u>Warranty</u> 01 x Year after final acceptance of the equipment/ item.	

ANNEX C TO DID LETTER
Inv.Del/8/Cable Assembly/26/2022
DATED 29 SEPTEMBER 2026

USER REQUIREMENT DOCUMENT (URD) – CABLE ASSEMBLY DC

S No	User Requirements/ Specifications	Manufacturer's Remarks (Complied/ Not Complied)
1.	<u>Introduction</u> DC cable is an essential part of GPU (Ground Power Unit) which is used to provide 28.5V DC supply to platform. It contains on 03 core (02 mono wires of 95 mm). Furthermore only one core of 16 mm.	
2.	<u>Aim</u> Its aim is to connect DC supply of 24-28.5V DC and current rating from 800 to 1600 Amps to all platform.	
3.	<u>Operational Capabilities</u> It provide DC supply from system to all platform.	
4.	<u>Product Presentation /Demonstration Trials.</u> Yes	
5.	<u>Requisite Functionalities</u> As above	
6.	<u>Details of the requirement i.e. need/ usefulness, reason for indigenous development</u> The DC Cable assembly is required as per sample.	
7.	<u>Training Requirements</u> Nil	
8.	<u>System Software (where applicable)</u> N/A	
9.	<u>Technical Assistance</u> N/A	
10.	<u>Acceptance Criteria/ Tests/ Trials Specifications</u> FAT (Factory Acceptance Test) is conducted in a lab to verify the performance and compliance with specified requirements by the manufacturer before delivering of DC cable assembly (95x4mm) with terminal lug. SAT(Site Acceptance Test) The DC cable assembly (95x4mm) pure copper with terminal lug is to be tested on site after installation on GPU to verify its performance and compliance with the specified requirements.	
11.	<u>Additional Information (if Any)</u> 15 m effective length cable consisting of 03 core (02 mono wires of 95 mm conductors). Furthermore only one core of 16 mm, pure copper with platform socket, complying with the platform standards in force.	
12.	<u>Dimension.</u> Once 15m effective length cable, per output (95x4mm) conductors with platform socket, complying with platform standards enforced.	
9.	<u>ILS Requirement (where applicable)</u> Firm will provide Integrated Parts Catalogue.	
10.	<u>Warranty</u> 01 x Year after final acceptance of the equipment/ item.	