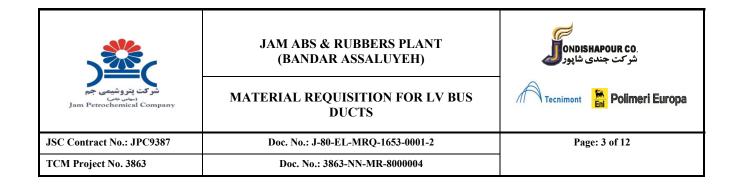




				Cont	AND.	AND.				
2	30.June.2017	R	Issued For Review	GHB	ASP	ASP				
1	12.Jul.2016	R	Issued For Review	GHB	ASP	ASP				
0	09.Aug.2015	R	Issued For Review	MAB	ASP	ASP				
Rev		Class	Status	Prepared	Checked	Approved	Prepared	Checked	Approved	
Kev	Date	Date Class Status			ТСМ			JSC		

	JAM ABS & RUBBERS PLANT (BANDAR ASSALUYEH)	ONDISHAPOUR CO. شرکت جندی شاپور
شر کت پتر وشیعی جم (حیات عامی) Jam Petrochemical Company	MATERIAL REQUISITION FOR LV BUS DUCTS	Tecnimont Polimeri Europa
JSC Contract No.: JPC9387	Doc. No.: J-80-EL-MRQ-1653-0001-2	Page: 2 of 12
TCM Project No. 3863	Doc. No.: 3863-NN-MR-8000004	

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Contents

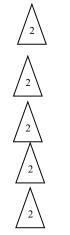
Part A: List of Documents supplied with Requisition	
Part B: Scope of Supply	5
Sub-Part B-I: Equipment / Bulk Material Supply	5
Sub-Part B-II: Documents and Drawings Supply	
Part C: Extent of Supply	
Part D: Exclusions	
Part E: Vendor's Compliance	
Part F: Letter Of Confirmity	

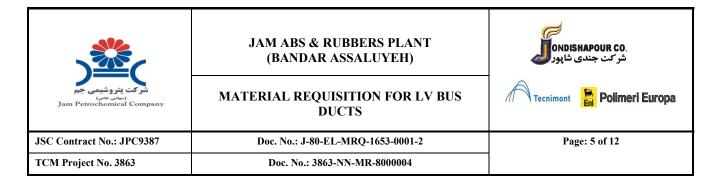
	JAM ABS & RUBBERS PLANT (BANDAR ASSALUYEH)	ONDISHAPOUR CO. شرکت جندی شاپور
شرکت پتروشیمی جم ^(سایر عام) Jam Petrochemical Company	MATERIAL REQUISITION FOR LV BUS DUCTS	Tecnimont En Polimeri Europa
JSC Contract No.: JPC9387	Doc. No.: J-80-EL-MRQ-1653-0001-2	Page: 4 of 12
TCM Project No. 3863	Doc. No.: 3863-NN-MR-8000004	

Part A: List of Documents supplied with Requisition

NOTE - FURTHER ISSUES OF BELOW DOCUMENTS. NOT MODIFYING ORDER CONDITIONS, WILL BE DELIVERED WITHOUT MR REISSUING.

Description	Reference	Rev	Date of attachment
1. PROJECT SPECIFICATIONS/PROCEDURES			
Packing , marking and shipping instructions	J-80/85/88-PP-PRC-0052	0	12.Jul.2015
Spare parts procedure	J-80/85/88-PP-PRC-0054	0	12.Jul.2015
Shipping procedure	J-80/85/88-PP-PRC-0051	0	12.Jul.2015
Packing and Marking Procedure for Electrical Panels and Instruments	J-80/85/88-PP-PRC-0053	0	12.Jul.2015
Vendor Documentation Management Procedure	J-80/85/88-PP-PRC-0000-0005	1	12.Jul.16
2. JOB SPECIFICATIONS			
Electrical Design General Specification	J-80/85/88-EL-JSD-0000-0001	1	12.Jul.16
Painting specification	J-80/85/88-PR-JSC-1300-0005	4	30.June.17
3. EQUIPMENT SPECIFICATIONS/DATASHEETS			
Typical LV Switchgear Side Bus duct Termination Drawings	(Attachment-1)	0	30.June.17
Typical Distribution Transformer (6/0.42kV) GA Drawings	(Attachment-3)	0	30.June.17
Job specification for MV & LV Bus Ducts	J-80/85/88-EL-JSS-1653-0001	0	09.Sep.2015
Datasheet – Bus Ducts	J-80-EL-DSH-1653-0001	2	30.June.17
Electrical Equipment Layput Substation – ABS Plant	J-80-EL-DWG-0000-0001	1	12.Jul.16
4. SITE CONDITION			
Site Design Condition For Electrical Installation	J-80/85/88-EL-JSD-0000-0002	1	12.Jul.16
5. INSPECTION			
Inspection and test plan LV Bus Ducts	J-80-EL-ITP-1653-0001	1	12.Jul.16





Part B: Scope of Supply

This supply is composed of two parts:

Sub-part B-I:	Equipment / Bulk Material Supply
Sub-part B-II:	Documents and Drawings Supply

Sub-Part B-I: Equipment / Bulk Material Supply

POSITION	ITEM/TAG	QUANTITY	DESCRIPTION
5	BD-8002C	1	LV Bus Duct, 5000 A, 65kA/Sec
10	BD-8004C	1	LV Bus Duct, 5000 A, 65kA/Sec
11	-	1 Set	2 Years Operation Spare Parts
12	_	1 Set	Erection, Precommissioning, Commissioning
12	-	1 001	and Start-up Spare Parts
13	-	1 Set	Special Tools
14	-	-	Factory Acceptance Test
15	-	-	Site Commissioning Assitance / Supervision
16	-	-	Training at site

	JAM ABS & RUBBERS PLANT (BANDAR ASSALUYEH)	ONDISHAPOUR CO. شرکت جندی شاپور
شر کت پټر وشيمې جم (حياني عاني) Jam Petrochemical Company	MATERIAL REQUISITION FOR LV BUS DUCTS	Tecnimont Europa
JSC Contract No.: JPC9387	Doc. No.: J-80-EL-MRQ-1653-0001-2	Page: 6 of 12
TCM Project No. 3863	Doc. No.: 3863-NN-MR-8000004	

Sub-Part B-II: Documents and Drawings Supply

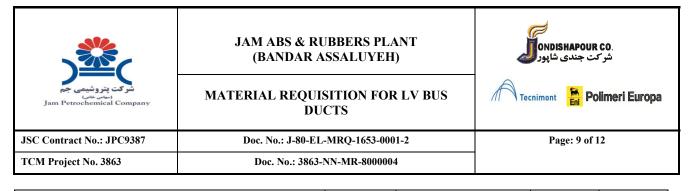
Documents To be submitted by vendor	At Bid Stage	For Aj	pproval	Purpose	Final Issue / As Built
	No. of Prints	Issue Date	No. of Prints		
1. GENERAL DOCUMENTS					
List Of Vendor's Documents And Drawings		+2W	4C+1CD	IFR	4C+1CD
Fabrication Production Schedule (Overall Manufacturing Schedule)	Е	+2W	4C+1CD	IFR	4C+1CD
Engineering, Procurment, Manufacturing And Test Schedule	Е	+1M	4C+1CD	IFR	4C+1CD
Vendor Mechanical Catalogue		2M before Delivery	1C	IFR	11C+3CD
Index Of Mechanical Catalogue		+8W	1C	IFR	1C
Sub Order Schedule / Copy Of Unpriced Sub Orders		+1M	4C+1CD	IFR	4C+1CD
Sub-Vendor / Supplier List	Е	+1M	4C+1CD	IFR	4C+1CD
Material Purchasing Specification For Suborder		+1M	4C+1CD	IFR	4C+1CD
Contract Specific Inspection & Test Plan		+2M	4C+1CD	IFR	4C+1CD
Summery Of Manufacturing Inspection Dossier		1M before Delivery	4C+1CD	IFR	4C+1CD
Physical Progress Report (Monthly)		+1M	4C+1CD	INFO	4C+1CD
Vendor's Procurement Status (Monthly)		+1m	4C+1CD	INFO	4C+1CD
Painting Specification and Procedure		+8W	4C+1CD	IFR	4C+1CD
2. ARRANGEMENTS					
General Arrangements showing main dimensions, arrangement of Aux. components and the minimum clearnces required for ventilation and safety during operation & maintannce	E	+1M	4C+1CD	IFR	4C+1CD

	JAM ABS & RUBBERS PLANT (BANDAR ASSALUYEH)	ondishapour Co. شرکت جندی شاپور
شر کت پټر وشيمي جم (ماس ماس) Jam Petrochemical Company	MATERIAL REQUISITION FOR LV BUS DUCTS	Tecnimont Eni Polimeri Europa
JSC Contract No.: JPC9387	Doc. No.: J-80-EL-MRQ-1653-0001-2	Page: 7 of 12
TCM Project No. 3863	Doc. No.: 3863-NN-MR-8000004	

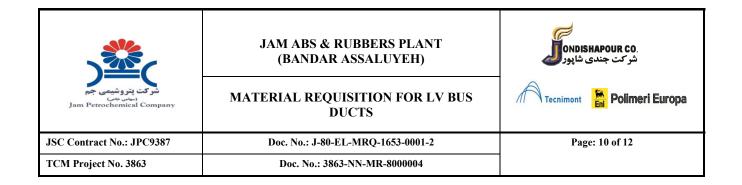
Documents To be submitted by vendor	At Bid Stage	For A	pproval	Purpose	Final Issue / As Built
	No. of Prints	Issue Date	No. of Prints		
Utility Requirements (Electrical Consumption For Equipment And Auxiliary, Ac And Dc)	E	+2M	4C+1CD	IFR	4C+1CD
Foundation Requirements For Ground Supports		+1M	4C+1CD	IFR	4C+1CD
Outline Drawing With All Relevant Dimensions And Weight/Massof total Assembly & of the individual sections		+8W	4C+1CD	IFR	4C+1CD
Details of bus duct flange connection to trafo/DG & Switchgear	Е	+4W	2C+1CD	IFR	2C+1CD
Bus-Duct supporting arrangement drawing and design.		+4W	4C+1CD	IFR	2C+1CD
Technical details of design and manufacturing	Е	+4W	4C+1CD	INFO	2C+1CD
3. DATA SHEETS					
Filled-Up Data Sheet(S) Of LV Bus Duct	Е	+4W	4C+1CD	IFR	4C+1CD
4. CALCULATIONS & PERFORMANCE DATA					
Temperature rise & Bus bar sizing calculations		+2M	4C+1CD	IFR	4C+1CD
Heat loss data for Bus-Duct incl. details for each shipping section.		+4W	4C+1CD	IFR	2C+1CD
5. DETAIL MECHANICAL/CIVIL DRAWINGS					
Parts List / Bill Of Material		+2M	4C+1CD	IFR	4C+1CD
Civil Work Guide Drawing		+4W	4C+1CD	IFR	4C+1CD
6. DETAIL ELECTRICAL DRAWINGS					
Terminal Block Diagram		+8W	4C+1CD	IFR	4C+1CD
Name Plate Drawing/ Rating Plate Drawing		+8W	4C+1CD	IFR	4C+1CD
Schematic and connection diagrams for auxiliary circuits for Bus-Duct.		+4W	4C+1CD	IFR	2C+1CD
Brochures / Catalogues for all accessories	E	+4W	4C+1CD	INFO	2C+1CD

	JAM ABS & RUBBERS PLANT (BANDAR ASSALUYEH)	ONDISHAPOUR CO. شرکت جندی شاپور		
شرکت پتر و شیمی جم ^(میلی علی) Jam Petrochemical Company	MATERIAL REQUISITION FOR LV BUS DUCTS	Tecnimont Eni Polimeri Europa		
JSC Contract No.: JPC9387	Doc. No.: J-80-EL-MRQ-1653-0001-2	Page: 8 of 12		
TCM Project No. 3863	Doc. No.: 3863-NN-MR-8000004			

Documents To be submitted by vendor	At Bid Stage For Approval		oproval	Purpose	Final Issue / As Built
	No. of Prints	Issue Date	No. of Prints		
7. TEST PROCEDURES					
Routine, Functional & Performance Test Procedures & reports along with final inspection reports		+1M	4C+1CD	IFR	4C+1CD
Factory Acceptance Test Procedure		+1M	4C+1CD	IFR	4C+1CD
Copies of Type test reports on identical equipment.	Е	+4W	4C+1CD	IFR	2C+1CD
Quality Control Plan including Inspection Test Plan and Test Procedures	Е	+4W	4C+1CD	IFR	2C+1CD
Site Acceptance Test Procedure		+2M	4C+1CD	IFR	4C+1CD
8. CERTIFICATION					
Manufacturing Data Report (Mdr) Index		+2M	4C+1CD	IFR	4C+1CD
Manufacturing Data Report (Mdr)		+2M	4C+1CD	IFR	4C+1CD
Copies of Test reports of bought out items (sub components)					
Material Certificates		+2M	4C+1CD	IFR	4C+1CD
Codes/Standard/Compliance Certificates		+1M	4C+1CD	IFR	4C+1CD
Test Results		2W before delievery	4C+1CD	INFO	4C+1CD
Specification Waivers	Е				
Test Certificates		2W before delievery	4C+1CD	INFO	4C+1CD
Inspection Release Note		2W before delievery	4C+1CD	INFO	4C+1CD
9. HANDLING & SITE INSTALLATION					
Packing, Shipping, Preservation, transportaion authorization, Handling & Storage Procedures		1W before delievery	4C+1CD	INFO	4C+1CD
Heavy and/or large equipment drawings with weight, Transportation Drawing		4W before delievery	4C+1CD	IFR	4C+1CD



Documents To be submitted by vendor	At Bid Stage	For Approval		Purpose	Final Issue / As Built
	No. of Prints	Issue Date	No. of Prints		
Detailed Schedule For Site Erection		3M before Delivery	4C+1CD	INFO	4C+1CD
Packing List including transportation dimensions, weight ans drawing of equipment in shipment condition.		2W before delievery	4C+1CD	INFO	4C+1CD
Special Precautions For Handling Prior Erection		3M before Delivery	4C+1CD	INFO	4C+1CD
Recommendations For Storage Prior And During Erection		3M before Delivery	4C+1CD	INFO	4C+1CD
Proceudre For Site Assmebly, Levelling And Welding		3M before Delivery	4C+1CD	INFO	4C+1CD
Procedure Of Preparation Of Equipment For Commissioning		3M before Delivery	4C+1CD	INFO	4C+1CD
List Of Components To Be Erected/ Installed On Site		3M before Delivery	4C+1CD	INFO	4C+1CD
List Of Special Tools And Means For Erection And Assembly	Е	3M before Delivery	4C+1CD	INFO	4C+1CD
Recommendations for Protection during transportation		4W before Delivery	4C+1CD	INFO	4C+1CD
List Of Spare Parts Of Erection, Commissioning And Start-Up	E	3M before Delivery	4C+1CD	INFO	4C+1CD
List of Spare Parts for (tbd) years operation Tbd=2 years, SPIR form as per 808588-PP-PRC-0008-1	Е	4W before Delivery	4C+1CD	INFO	4C+1CD
10. OPERATING INSTRUCTIONS					
Operating & Maintenance Manual		3M before Delivery	4C+1CD	INFO	4C+1CD
Installation, stat-up & Commissioning Manuals		3M before Delivery	4C+1CD	INFO	4C+1CD
List of Special Tools for Maintenance		3M before Delivery	4C+1CD	INFO	4C+1CD



Part C: Extent of Supply

The supply shall include, but not limited to the following:

- All engineering activities needful to design and construct the Bus Ducts and other equipment and accessories included in the supply.Vendor shall survey the bus duct route and evaluate all necessary accessoris and consider them in the offer.
- Main Supporting Structures
- Horizontal & Vertical Fixing Hangers and all other installation accessories
- Painting as per Painting specification.
- All services, materials etc related to fabrication, manufacture, assembly, testing, inspection, and packing, marking of Bus Ducts and other equipments and accessories.
- Storage up to transportation.
- Delivery as indicated in bid Inquiry letter.
- Technical documentation and Bus Duct's handbook containing any necessary instruction and detail for installation, operation and maintenance (drawings, catalogues, brochures etc.).
- Assistance to erection, installation, commissioning and start-up.

All components (Mechanical, Electrical, Instrumentation, etc.) and devices not mentioned in this specification but necessary for engineering, proper operation, control and safety of the Bus Ducts shall be included in the vendor scope of supply.

It shall be responsibility of Bidder to suggest during the bid stage any additional appropriate components to be included in the scope of supply and any modifications to improve the reliability / safety of the Bus Ducts, on the basis of his experience and practice.

Vendor shall be responsible for the total guarantee of Bus Ducts (materials, design, performances). Vendor shall have overall responsibility for the co-ordination with his sub-vendors, and for the proper execution of any accessory, item assembly, testing, delivery and any other service defined herein.

In the event of a contradiction or difference between standards and codes, the most restricting document will prevail.

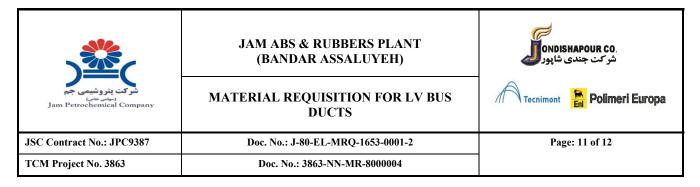
Any contradiction or difficulty to interpret the above listed points raised by Vendor shall be notified to PURCHASER for clarification. Design and manufacture cannot be started before having clarified the said discrepancies.

Part D: Exclusions

Vendor's scope of supply shall not include:

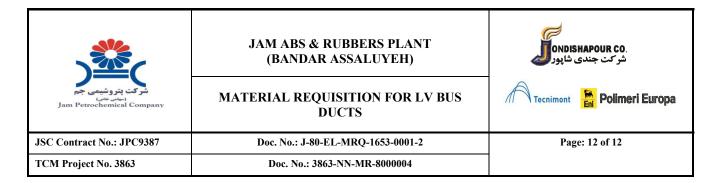
- Civil Foundations
- Installation (supervision is in vendor scope)
- Local grounding grid and relevant connections

N.B: Others will perform all civil works. The Vendor shall provide the detailed foundation drawing indicating weights and all dimensions.



Part E: Vendor's Compliance

- Vendor shall submit their bid in full compliance with the requirements of this MR and attachments.
- Any exceptions or deviations from the MR shall be clearly stated in the deviation list (as a part of confirmity letter) and shall be submitted along with the bid.
- If no exceptions are specified, we will consider that the bid is in completely in accordance with the MR and relevant documents.
- Vendor shall also quote separately all the alternatives requested in this MR and its attachments.
- Vendor shall submit along with the offer the "Letter of Confirmity with deviations(if any)" duly filled and signed
- Compliance with this MR in any instance shall not relieve the vendor of his responsibility to meet the specified conditions/obligations.



Part F: Letter of Conformity

то :

FROM :(VENDOR)

Herewith we confirm that our quotationin response to (QUOTATION) your inquiry.....is fully in (PURCHASER INQUIRY) (DATE)

accordance with the conditions as stated therein and we confirm that all technical

requirements as stipulated in the above mentioned inquiry documents have been

adhered to, except deviations listed in the exception/deviations form as follows in the table with this format:

Sr. No.	Section of the MR (Material Requisition)	Page No.	Article or Paragraph No.	Requirement	Exception	Remarks
1						
2						

□ No Exception / Deviation

Exceptions/Deviations are mentioned in the attached Table.

Date, Signature (VENDOR)
