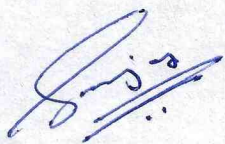


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Erection, Commissioning and Testing of Fresh Busduct at MPPGCL Busduct 1X500 MW.

IMPORTANT NOTE

**"BIDDER IS REQUESTED TO VISIT THE SITE IN PERSON AND THEN
SUBMIT THEIR BEST OFFER. ANY TYPE OF DENIAL /OBJECTION WILL
NOT BE ENTERTAINED AFTER FINALIZATION OF ORDER."**



Signature:
Sanjay Meena
Manager (FES)

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TECHNICAL CONDITION OF CONTRACT (TCC) CONTENTS

Sl. No.	DESCRIPTION	Chapter	No. of Pages
	Part-I: Technical Specification		
1	Project Information	Chapter-I	3
2	Scope of works	Chapter-II	4-5
3	Bill of Quantity	Chapter-III	6
4	Operation Procedure	Chapter-IV	7
5	Price bid (Submitted Separately)	Chapter-V	8



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CHAPTER-I PROJECT INFORMATION

1	Project name	MPPGCL 1X500 MWp
2	No. Of units x capacity	1X500 MW=500 MW
3	Project setting up by	MPPGCL
4	Location and approach	Teh: BIRSINGHPUR, Dist:- UMARIA , 484552, INDIA
5	Nearest railway station	BIRSINGHPUR UMARIA
6	Nearest major town & distance from project site	
7	Nearest airport	NA
8	Distance from airport to project site	NA
9	Nearest highway	NA
10	Distance from nearest highway point to the site	15 KM
11	Temperature	49.2° C (Max extreme recorded) & 1.7° C (Min. extreme recorded)
12	Transport	By Road
13	Project site address	Teh: BIRSINGHPUR, Dist:- UMARIA , 484552, INDIA



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CHAPTER – II SCOPE OF WORKS

THE SCOPE OF THE WORK WILL COMPRISE OF BUT NOT LIMITED TO THE FOLLOWING:

(All the works mentioned hereunder shall be carried out within the accepted rate unless otherwise specified.)

1.2.0. Detail scope of work

Sl no	Description of Work
1.	Mobilization of manpower at site and submit proper document to generate gated pass for work at site.
2.	Material Handling: Material shift from MPPGCL Storage yard to Work place under the scope of bidder within the premises of MPPGCL power plants. Arrangement of hydra is in MPPGCL scope.
3.	Erection Material to be issued by M/s MPPGCL at Storage yard and same to be take care upto successfully Replacement and commissioning of system. If any items missing and lost under the custody of sub-contractor then material amount to be recover from Sub contractor.
4.	Tool & Tackle: Mig Al. Welding machine, Drill Machine, Cutter, Grinding Machine, Spanner and other requisite items to be arrange by bidder to be successfully carried out work at site in Units. Arrangement of Hydra will be for shifting & erection will be in MPPGCL scope.
5.	Consumables: X- Ray quality Al. filler wire, Ultra High purity Argon Cylinder, DP Test kit, Wire Brush to be arrange at site by bidder and proper documentation.
6.	Al. Welder: Bidder to be deployed NTPC/BHEL Certified qualified AL. Welder at site for completion of welding work at site.
7.	X-Ray testing on Site welded joints to be carried out by bidder if require.
8.	Bidder to be arrange scaffolding/working platform at site for safe working at height.
9.	Erection of newly fresh supplied busduct at MPPGCL Site and matching with adjacent duct.
10.	Sub-contractor to be ensure for safe work practice at site without any damage to other items like transformer bushing & accessories which is connected with our Generator Busduct package.
11.	Sub-Contractor must be ensuring timely payment of wages to all the workers directly into their bank accounts.



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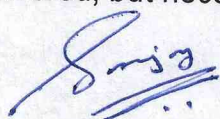
12.	After issue of material from stores, custody & security of material will be sub-contractors' responsibility till it gets erected and handed over to end customer.
13.	Bidder may visit MPPGCL Power Project for accessing erection Site location and before quoting in bid.
14.	Bidder must deploy experienced work engineer/Supervisor in Busduct erection field at MPPGCL site.
15.	The supervisor & Worker shall adhere to the erection schedules as per the instruction of BHEL. If situation so demands, they shall work for extended hours for timely completion of stipulated jobs.
16.	Bidder Shall deploy sufficient Manpower to execute all the Works Safely and within stipulated time frame.
17.	Boarding & Lodging of all workers shall be in Bidder scope.
18.	Gate passes for entry inside MPPGCL premises shall be required for all contract workers/ vehicle as per rules pertaining at the time of contract. All the necessary formalities such as police verification etc shall be ensured by Bidder.
19.	Subcontractor is responsible to provide safe working environment during the erection work and arrange scaffolding equipment, PPE for worker etc. Detail is mention in SCC.
20.	Minimum wages and other statutory Benefits (Like PF, Leaves Salary, Bonus Etc. as may be applicable) paid to workers shall be in conformity with the time to time orders issued by MPPGCL.
21.	Sub-contractor is responsible to cleaning the site and handover surplus material to BHEL at its dedicated storage yard with proper stacking.
22.	Subcontractor will be responsible for Closing the Contract with BHEL, Rudrapur and provide required Compliance timely.

1.2.1. The scope of specification covers the dismantling of damaged busduct and installation of fresh busduct in unit and restore the system up to the commissioning stage.

1.2.2. If any item or equipment not covered but requires being erected / commissioned, same shall be carried out by the contractor. Equivalent or proportional unit rate for those item or equipment shall be considered wherever possible from the BOQ. The rates quoted by the contractor shall be uniform as far as possible for similar items appearing in rate schedule.

Note:- Contractor shall go through the detailed BOQ and specification before filling the rate in the rate schedule/price bid.

1.2.3 It is not the intent to specify herein all details of material. Any item related to this Work not covered, but necessary to complete the system will be deemed to have



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Been included in the scope of the work.

Note:

**FOR FURTHER DETAILED SCOPE OF WORKS REFER
RELEVANT CHAPTERS IN THIS BOOK**



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CHAPTER - III

BILL OF QUANTITY (BOQ)

Sl. No.	Description of Work	UOM	AMOUNT
1	*Erection of Busduct & Its Accessories	1 Lot	
2	GST @ 18% As applicable	1 Lot	
3	Grand Total (1+2+3+4+5+6)		

* Detail of Items wise BOQ is as below:

Detail of BOQ items which was execute at MPPGCL Birsinghpur site for Restoration of IPBD in Delta Run.			
S. No.	Material Description	Qty.	UoM
		A	B
01	BOM-57 (ENCL & Cond.) And Supporting Leg With Accessories	1	Set
02	BOM-61 (ENCL & Cond.) And Supporting Leg With Accessories	2	Set
03	BOM-58 (ENCL & Cond.) And Supporting Leg With Accessories	1	Set
04	BOM-48 (Delta Hood) And All Gasket With Accessories	2	Set
05	BOM-601 (RB) Rubber Bellow With Accessories	2	Set
06	Window Makeup Piece 1000 mm Dia	6	Nos
07	Plain Makeup Piece 1000 mm Dia	6	Nos
08	Seal Off Bushing Drg. No.35415155133-Rev-02 With Accessories	2	Set
09	Earthing Shunt BOM-240 (Three Layer)	1	Set
10	Earthing Strip	80	Meter
11	Blue Paint RAL-5012	60	Litre
12	Black Matt Paint	60	Litre
13	Copper Braided Flexible Drg. No. 35415155167 Rev00 With Hardware	32	Nos
14	APE Pipe-15NB	60	Meter

NOTE TO BOQ: Above Quantity of each line items is tentative and are liable to change during the course of execution & handing over to end customer.
After completion of erection work at site, final BOQ quantity line item wise will be verified. If any variation in quantity noticed over & above each line items given quantity, amendment of contract will be carried out to include the same before processing of final bill.
Any variation in quantity noticed, lower than mentioned in BOQ, actual quantity supplied/ Installed/ others will be processed for payment.



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CHAPTER - IV

OPERATION PROCEDURE

1. Dismantling of damaged busduct at MPPGCL Site and Re-erection of Fresh BHEL Supplied busduct.
 - a) Existing damaged busduct & other accessories to be cutting at their place.
 - b) Damaged busduct to be shift at dedicated storage location of MPPGCL.
 - c) BHEL Fresh supplied busduct shift at site and erected with all safety measure to be taken.
 - d) Proper fitment of busduct element and match with adjacent busduct and after fitment tag welding of all busduct element.
 - e) After placement and fitment of busduct element need to be checked by site supervisor and then final welding to be process.
 - f) DP Test to be carried out at Root welding and Final Welding.
 - g) After clearance and no welding defect. Black Matt paint to be applied on welded joints.
 - h) On completion of conductor welding. Cleaning of Insulator and ensure no any foreign material inside the busduct segment.
 - i) Shunt plate to be fitment and welding of all layer as per drawing.
 - j) Plain and window make up piece to be fitment on busduct enclosure.
 - k) Tag welding on window make up piece on each element.
 - l) Final Welding on window make up piece.
 - m) DP Test on window make up piece.
 - n) IR & HV Test to be carried out before termination of Cu. Braided Flexible.
 - o) Termination of Cu. Braided Flexible and checked torque tightness.
 - p) Closing of Rubber bellow.
 - q) Cleaning of Site and Handover to site.



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CHAPTER – V PRICE BID

PROJECT: MPPGCL 1X500 MW Site

SCOPE OF WORK: Erection, Commissioning and Testing of Fresh Busduct at MPPGCL Busduct 1X500 MW

Sl. No.	Description of Work	UOM	AMOUNT
1	Erection of Busduct & Its Accessories	1 Lot	
2	GST @ 18% As applicable	1 Lot	
3	Grand Total (1+2)		

(In words:

Rupees.....)

Note: 1) Selection of L-1 party will be based on cost arrived in grand total (Sl. No.:-03)

Note:-

Filled Price Bid to be submitted separately in online bid as per instruction in NIT.



Bidder Signature