

BOQ , SCHEDULE OF WORK & FABRICATION PROCEDURE

A. Bill of Quantity as per following

Sl.no	DESCRIPTION	QTY	Unit
	As per scope of work, Fabrication work of IPBD for enclosure & conductor inside BHEL, CFP, Rudrapur Plant at rate of Rs./Kg as under		
1	IPBD Straight enclosure & Conductor includes enclosure with channel ring mounting pad, 75 mm hole in channel rings & backing tube in conductor.	350000	Kg

BHEL will also pay additional charges on and above Rs/Kg charges of a standard straight duct as per the following details, with a ceiling of 15% of work order value based on actual measurement basis:

Additional Payment Description	Criteria	Rs/No.
Per Bend Enclosure Joint	For Enclosure Dia Up to 876	240.00
	For Enclosure Dia 900 to 1200	299.00
	For Enclosure Dia 1201 to 1700	359.00
Per Bend Conductor Joint	Box Channel cond. up to 254 mm size./ Tubular cond. 114& 142 dia.	167.00
	> 254 box CH. and up to dia 530	419.00
	dia from 531 to 800	599.00
	dia from 801 & above	719.00
Per window & cover fabrication.	For Enclosure Dia Up to 876	389.00
	For Enclosure Dia 900 to 1200	539.00
	For Enclosure Dia 1201 to 1700	719.00
Per Blanking Plate & Palm	Box channel cond. size up to 254 mm, / Tubular cond. 114 dia.& 142 dia.	294.00
	dia from 255 to 530	587.00
	dia from 531 to 800	934.00
	dia from 801 & above	1366.00
Per Enclosure flange & SOB Flange	For Enclosure Dia 1201 to 1700	138.00
	For Enclosure Dia 900 to 1200	108.00
	For Enclosure Dia Up to 876	78.00
Enclosure Continuity flange & Palm Plate	For Enclosure Dia Up to 1500mm	1925.00
CT Terminal box up to 7 kg. wt. & CT Pad		229.00
CT Terminal box above 7 kg. wt. & CT Pad		516.00

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1. Palm assembly for channel/tubular conductor without blanking plate shall not be paid extra.
2. Adaptor box at transformer end, GT end, barrel wall, GCB end, shall be considered as straight duct. Cost of window shall be added as per size of enclosure.
3. Channel rings fitment wherever called in DWG has to be fitted without any extra charges.
4. Extra charges other than above listed work shall not be considered.

(B) SCHEDULE OF START AND COMPETION OF WORK: Duration of Contract 12 Months from the date of Work Order/LOI

Sl. No.	ACTIVITY	DATE OF COMPLETION
1	Mobilization of requisite manpower.	Within one week of receipt of W.O.
2	Fabrication of IP Bus Ducts	-Allotted quantity to contractor's of IPBD in 12 months progressively. -Time of work completion shall be as per schedule given at Sl. No.9 of (Liquidated damage) of SCC as per Annexure-C.
3	Demobilization of manpower deployed	Within one week of completion of W.O. after obtaining no objection certificate from PDN department.

(C) FABRICATION PROCEDURE & SCOPE OF WORK

A	FABRICATION OF IPBD ENCLOSURE: AS PER DRAWINGS
1	Rolling of Enclosure Drums of required diameter, duly flared (if reqd.) at one end and Longitudinally welding.
2	Making full length of Enclosure by joining required no. of drums with each other.
3	Marking for Channel Ring(s), Inspections Window(s), CTTB(s), CTMP(s), HAB Hood(s), SOB Flange(s), Tap-Off(s) etc. as per drawing
4	Marking for profile(s) for different degree(s) as per drawing
5	Cutting by Jig Saw / Circular Saw
6	Preparation of Channel Ring(s), Inspections Window(s), CTTB(s), CTMP(s), HAB Hood(s), SOB Flange(s), etc. as per drawing
7	Match marking / fit-up and tack welding
8	Fillet welding + butt welding on bend(s) / profile(s) / tap-off(s)/welding of tap-off conductor and SOB flange after assembly of busduct (enclosure and conductor)
9	Offer for in process inspection (DP & Dimension) by BHEL/Qly.
10	Dressing & roughing, removal of burrs & grinding of extra welding for painting.




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B	FABRICATION OF IPBD CONDUCTOR: AS PER DRAWINGS
1	Rolling of Conductor halves of 2000 mm of required diameter.
2	Making full length of Conductor by joining required no. of Conductor halves
3	Marking for slot(s), cut-out(s), spacer(s), SOB Flange(s)
4	Marking for profile(s) for different degree(s) as per drawing
5	Cutting by Jig Saw / Circular Saw
6	Preparation of SOB Flange(s), Blanking Plate & Palm assy(s) etc. as per drawing
7	Match marking / fit-up and tack welding
8	Fillet welding + butt welding on bend(s) / profile(s) / tap-off(s)
9	Offer for in process inspection (DP & Dimension) by BHEL/Qly
10	Dressing & roughing, removal of burrs & grinding of extra welding