

Annexure – I

SCOPE OF WORK

Indent No.: 20190644

- 1). Removal of existing old asbestos sheets to be disassembled/removed without breaking / damage to the extent possible. However, removal of sheets from the roof by hammering / Cutting is not allowed.
- 2). Contractor shall also remove cement asbestos debris / off-cuts / broken pieces (if any) resulting due to work and dispose-off the same within a distance of 150 mtrs. **The final disposal of old asbestos debris shall be carried out by depositing the same at the face of landfill site or at the bottom of an excavation dug for it as per Cl. 9 of IS 11768. The site for such disposal shall be provided by BHEL.**
- 3). Supply & installation of new color coated (blue color finish on outer surface) Galvalume Sheets, FRP sheets, puffed sheets, Gutters, Ridges, down take pipe and Turbo ventilator etc. in following structures: (a) OPS, (b) REG / Quality office, (c) OAB, (d) Central stores & (e) Parking shed at BHEL-CFP, Rudrapur, as specified in Annexure - III. Quantity mentioned in Annexure-III is tentative and will be subject to actual quantity used as per the final measurement of work. (Note: All quantity of any item supplied should be of single make from the makes mentioned in annexure-III) **size, shape and pitch of corrugation to be identical for item no 1, 5 and 7 (Base Plate).**
- 4) **The Sheet shall be fixed using self-drilling/ self-tapping screws of suitable size with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surface including cutting to size and shape wherever required.**
- 5). All hardware required for installation will be in the contractor's scope. **All hardware should be of zinc coated type. Specified make for hardware is Hilti / HP / Corroshield/ Patta. Manufacturers Test Certificate for the supplied hardware shall be required is required. Hardware will be supplied in sealed pack and will be verified by BHEL before opening of packing.**
- 6). Levelled area for storage of items within BHEL premises shall be provided by BHEL. Contractor should ensure proper storage & maintenance of supplied items with required props till execution/installation, as per the direction of BHEL.

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TERMS & CONDITIONS

1. Work is to be executed strictly as per scope of work & Terms & conditions stipulated in Annexure – I & Annexure – II respectively.
2. **Safety:** Adequate safety precautions, safety belts, safety shoes, helmet, PPEs for contractor's workmen & work permit from BHEL for working at height >7ft, arrangement & use of safety net at Old Production Shop to prevent falling of splinters in shop shall be the responsibility of contractor. It may be noted that wearing of safety shoes shall be the essential requirement for entering into BHEL premises.
3. **Sourcing of Material:** Material shall be sourced from OEM or authorized dealers of Specified Make (ref. Annexure-III). Contractor shall submit delivery challan from OEM / authorized dealer as proof of sourcing against firm order from BHEL.
4. **Test Certificate:** Manufacturer's test certificate shall be provided by supplier along with the supply against firm order from BHEL.
5. **Delivery Schedule: Site clearance for commencement of work shall be available w.e.f. 01.03.2020. Work to be completed in all respect as per following schedule:**
 - (a) 30 % as per scope of work: by 15.03.2020
 - (b) 50 % as per scope of work: by 30.03.2020
 - (c) 100 % as per scope of work: by 30.06.2020
6. **Delivery terms:** F.O.R. BHEL-CFP, Rudrapur
7. **BOQ and Price distribution Format** shall be as per Annexure – VI which shall be submitted as part of technical bid. Percentage value against each line item of Annexure-VI shall essentially be mentioned. In case, value of percentage is not mentioned, left blank, mentioned as 'Nil', 'included', zero etc., the bidder's offer shall be technically rejected.
8. **Work shall be awarded on L-1 offer (Landing Cost) basis. Rate / amount of individual items of BoQ shall be distributed as per percentage values for respective items mentioned by the bidder in Annexure-VI.**
9. **Quality of Supply & workmanship:** Contractor should ensure that the supply of the items be made strictly as per the make & specifications mentioned in Annexure – III. The overlapping of sheets, ridges & gutters in final work should ensure minimum overlapping of 300 mm.

Items not as per the required make / specification, damaged, dented / bent items, misaligned / improper installation at the time of supply or final work before site handover to /takeover by BHEL shall be liable to be rejected.
10. All Tools, Tackles, Safety equipment's / provisions, PPE's, movement of manpower & material for the work, fulfilment of statutory obligations w.r.t. workmen engaged, shall be arranged by the contractor.
11. All Material/tools & tackles supplied/brought inside BHEL premises by the contractor under the contract awarded shall be supplied through contractor's material challan duly stamped at BHEL security gate, a copy of which is also to be submitted to Civil deptt. of BHEL-CFP for records.


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12. **Inspection:** Inspection of supplied item and Installation work shall be carried out at BHEL-CFP works as follows:

- (a) Supplies made under the contract along with material challan shall be inspected by Quality deptt. of BHEL-CFP against W.O. specifications
- (b) Installation work shall be inspected by Civil / nominee deptt. of BHEL-CFP for acceptability.

Any Supply or Installation work found not conforming to the specifications / requirement as a result of inspection shall be replaced / repaired by the contractor as per requirement at its own risk & cost.

13. **Measurement of work:** Work carried out by the contractor shall be measured jointly by BHEL & Contractor and the same shall be entered in measurement book (M.B.) & verified. Length & width measurement of work in respect of sheets, ridges, gutters & down take pipes shall be considered in running meters (excluding underlapping portion) and for Turbo Ventilators, measurement will be in numbers.

14. **Payment terms:** Payment against satisfactory execution of work shall be made to the contractor based on measurement of work as per M.B. records and invoice submitted by the contractor (in duplicate) through e-payment to contractor's account within 45 days as follows:

Contractor shall raise bills in two parts for claim of payment as follows:

- (A) Running Bill: Payment against 100% supply shall be made after inspection & acceptance at BHEL against bill submission subject to total payment shall be restricted to 60% of total contract of overall order value.
- (B) Final bill: Balance payment including I&C shall be made on completion of 100% I&C as per scope of Work against final bill.

- Note:** (i) All payments will be subject to TDS & GST other statutory deduction as per applicable rules.
(ii) No payment shall be made for incomplete supply or incomplete installation work in any structure
(iii) No mobilization / re-mobilization advance or compensation therefor shall be Payable by BHEL to the contractor in any circumstances.

15. **Risk Purchase:** BHEL reserves the right to exercise risk purchase in case of failure on the part of contractor to meeting the contractual obligations under the contract i.e. unsatisfactory execution of work / quality, incomplete work carried out by the contractor. BHEL shall not be liable to compensate the contractor for any loss arising out of risk purchase action.

16. **Liquidated DAMAGES/PENALTY:** If the contractor fails to complete the work as per schedule thereby results in delay in the completion of the work, BHEL shall have the right to impose Liquidated Damage/Penalty at the rate of 0.5% of the contract value per week of delay or part thereof subject to a maximum of 10% of the contract value. For this purpose, the period of delay shall be the delay attributable to the Contractor for the completion of work. Contract Value for this purpose shall be the final executed value.

17. Time Extension : In case, the work is delayed by Force majeure conditions like, abnormally bad weather, serious loss or damage by fire, civil commotion, strike or lockout, flood, riots, cyclone, earthquake etc. any other cause including non-availability of storage / delay in site clearance for work by BHEL, which in the absolute discretion of BHEL is beyond the contractor's control, request for extension of time along with reason(s) to be eligible for consideration, shall be made by the contractor in writing within seven days of the happening of the event causing delay but before expiry of scheduled date of completion. BHEL may or may not, at its discretion, give any extension after review of contractor's application and mere submission of application for extension shall not absolve the contractor of its obligation to complete the work within scheduled time or liable to be penalized for delay unless time extension is provided by BHEL. Status on grant / turndown of extension request shall be communicated to the contractor.

18. **Warranty & Security Deposit:** Contractor is required to deposit an interest free security deposit @5% of contract value before start of the work, which shall be retained by BHEL till successful completion of warranty period. Onsite **warranty of 24 months** against defective supply & defective workmanship shall be applicable from the date of completion of work against contract and handing over of site, to BHEL. Any defect found in supply during warranty period shall be replaced free of cost by the contractor. Similarly, any defect in workmanship detected during warranty period shall be rectified free of cost by the contractor.

19. Contractor shall take due care in carrying out the works so as not to cause damage to BHEL property. Any damage to BHEL property caused and attributed to the contractor or its workmen shall be repaired / 100% compensated by the contractor at its risk & cost.

20. Contractor have to provide the following documents and acceptance:

1	Name & Address of Party		
2	EPF Registration No.(Enclose a Copy)		
3	ESI Registration No.(Enclose a Copy)		
4	Pan Card No.(Enclose a copy)		
5	GST Registration no.(Enclose a Copy)		
6	Bank Account Details IFSC Code Account No. Bank Name Branch Name		Accepted & Documented submission
7	Acceptance to provide trained /qualified staff		Accepted & Documented submission
8	Acceptance of E-Payment		Accepted & Documented submission

ANNEXURE-VI

BOQ & PRICE DISTRIBUTION FORMAT

Work: - Replacement of Asbestos sheet with Colour coated Galvalume sheet on the roof & walls of old Production shop (OPS), old Administrative building (OAB), Renewal Energy Group (erstwhile Business Development cell) & Quality office, Central Stores and parking shed at CFP Rudrapur.

Sl.No.	Description of Item	Make	Quantity	Unit	Distribution of price in percentage (%) of total basic Quote
1a	SUPPLY OF COLOR COATED GALVALUME STEEL PROFILE SHEET OF 0.50MM (Min) +0.05% TCT HIGH STRENGTH 550MPA (MIN) CONFORMING TO IS 14246:2013 & HAVING ZINC COATING OF MIN 120GM/M2 AS PER IS 277:2018, 5-7 MICRONS EPOXY PRIMER ON BOTH SIDE & POLYESTER TOP COAT 15-18 MICRONS HAVING PLASTIC PROTECTIVE FILM 25 MICRONE (MIN) TO AVOID DAMAGE DURING TRANSPORTATION	JINDAL, JSW, TATA, EVEREST, BHUSHAN STEEL, ESSAR, CHARMINAR, KAMDHENU	3797	Sq.m.	
1b	REMOVAL OF EXISTING ASBESTOS SHEETS AND INSTALLATION OF NEW GALVALUME SHEETS ITEM NO. 1a AS PER SCOPE OF WORK ANNEXURE-I	-	3797	Sq.m.	
2a	SUPPLY OF COLOR COATED GALVALUME STEEL SHEET GUTTERS 600MM OVER ALL GIRTH, 0.50MM (Min) +0.05% TCT ZINC COATING 120GSM AS PER IS 277:2018 IN 550MPA (MIN) STEEL GRADE, 5-7 MICRONS EPOXY PRIMER ON BOTH SIDE & POLYESTER TOP COAT 15-18 MICRONS CONFORMING TO IS 14246:2013	JINDAL, JSW, TATA, EVEREST, BHUSHAN STEEL, ESSAR, CHARMINAR, KAMDHENU	971	RM	
2b	REMOVAL OF EXISTING GUTTERS AND INSTALLATION OF NEW GUTTERS (REFER TO ITEM NO. 2a) AS PER SCOPE OF WORK ANNEXURE-I	-	971	RM	
3a	SUPPLY OF COLOR COATED GALVALUME STEEL SHEET RIDGE 600MM OVER ALL GIRTH, 0.50MM (Min) +0.05% TCT ZINC COATING 120GSM AS PER IS 277:2018 IN 550MPA (MIN) STEEL GRADE, 5-7 MICRONS EPOXY PRIMER ON BOTH SIDE & POLYESTER TOP COAT 15-18 MICRONS CONFORMING TO IS 14246:2013	JINDAL, JSW, TATA, EVEREST, BHUSHAN STEEL, ESSAR, CHARMINAR, KAMDHENU	500	RM	
3b	REMOVAL OF EXISTING RIDGE AND INSTALLATION OF NEW RIDGE (REFER TO ITEM NO. 3a) AS PER SCOPE OF WORK ANNEXURE-I	-	500	RM	
4a	SUPPLY OF COLOR COATED GALVALUME STEEL SHEET DOWN TAKE PIPES OF GIRTH 400MM SQUIRE CONSTRUCTION, 0.50MM (Min) +0.05% TCT ZINC COATING 120GSM AS PER IS 277:2018 IN 550MPA (MIN) STEEL GRADE, 5-7 MICRONS EPOXY PRIMER ON BOTH SIDE & POLYESTER TOP COAT 15-18 MICRONS CONFORMING TO IS 14246:2013	JINDAL, JSW, TATA, EVEREST, BHUSHAN STEEL, ESSAR, CHARMINAR, KAMDHENU	385	RM	
4b	REMOVAL OF EXISTING DOWNTAKE PIPES AND INSTALLATION OF NEW DOWNTAKE PIPES (REFER TO ITEM NO. 4a) AS PER SCOPE OF WORK ANNEXURE-I	-	385	RM	
5a	SUPPLY OF DAY LIGHT PROFILE PANEL (FRP) OF 2MM (MIN) THICKNESS CONFORING TO IS 12866:2007 SIZE, SHAPE & PITCH OF TRAPOZOIDAL PROFILE FRP SHEET SHOULD MATCH WITH PROFILE OF SL NO.1a	JINDAL, JSW, TATA, EVEREST, BHUSHAN STEEL, ESSAR, CHARMINAR, KAMDHENU	714	Sq.m.	
5b	REMOVAL OF EXISTING SHEETS AND INSTALLATION OF NEW FRP SHEETS (REFER TO ITEM NO. 5a) AS PER SCOPE OF WORK ANNEXURE-I	-	714	Sq.m.	
6a	SUPPLY OF POLYURETHANE FOAM (PUF) OF 30 MM (Min) TCT CONFORMING TO IS 12436:1988 HAVING COLOR COATED GALVALUME STEEL OF 0.50MM (Min)+0.05% TCT HIGH STRENGTH 550MPA (MIN) AT TOP & BOTTOM SHEET CONFORMING TO IS 14246:2013 & SHALL HAVE ZINC COATING OF MIN 120GSM AS PER IS 277:2018 HAVING PLASTIC PROTECTIVE FILM 25 MICRONE (MIN)	JINDAL, JSW, TATA, EVEREST, BHUSHAN STEEL, ESSAR, CHARMINAR, KAMDHENU	660	Sq.m.	
6b	REMOVAL OF EXISTING SHEETS AND INSTALLATION OF NEW PUF SHEETS (REFER TO ITEM NO. 6a) AS PER SCOPE OF WORK ANNEXURE-I	-	660	Sq.m.	
7a	SUPPLY OF 24 INCH TURBO VENTILATOR ALONG WITH FRP BASE SHEET OF LENGTH 1800MM (MIN) WIDTH 1200MM (MIN) SHAPE & PITCH OF TRAPEZOIDAL PROFILE OF BASE SHEET SHOULD MATCH WITH PROFILE OF SL NO.1a	AIR CREATIONS INDIA, JSW, GISCO, EVEREST, KANSAL COLOUR & SHRIYA FRP BRANDS	26	No.	
7b	REMOVAL OF EXISTING ARRANGEMENTS AND INSTALLATION OF NEW TURBO VENTILATORS (REFER TO ITEM NO. 7a) AS PER SCOPE OF WORK ANNEXURE-I	-	26	No.	
TOTAL					100

This format shall be submitted as part of technical bid. % value against each line item shall essentially be mentioned. In case, value of % is not mentioned, left blank, mentioned as 'Nil', 'included', zero etc., the bidder's offer shall be technically rejected. (Ref. Clause of Annexure-II)

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FORMAT OF PRICE BID

ANNEXURE-III

SL. NO.	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES (INR)/UNIT	TOTAL VALUE(RS.)
1	REPLACEMENT OF ASBESTOS SHEET WITH COLOR COATED GALVALUME SHEET ON THE ROOF AND SIDE WALL OF OPS, OAB, BDC, QUALITY OFFICE, CENTRAL STORE & PARKING SHED AT BHEL-CFP RUDRAPUR AS PER SCOPE OF WORK (ANNEXURE-I) T&C (ANNEXURE-II) AND BOQ & PRICE DISTRIBUTION FORMAT (ANNEXURE-VI)	1	Set.		
	TOTAL AMOUNT	-	-	-	
	GST@18%	-	-	-	
	GROSS AMOUNT	-	-	-	

Gross Amount in Words: Rupees

Important Note for Bidder :

- 1- Ref. Clause 7&8 of Annexure-II of Terms & conditions.
- 2- Do not mention any terms & condition on this page. Any terms & condition mentioned may lead to the rejection of the offer.

Certificate by the Bidder : Scope & all Terms & Conditions of the tender enquiry has been read and understood by the undersigned

Date:

Sign. & Seal of the Bidder

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