

### Bid Document

Bid Details	
Bid End Date/Time	27-07-2020 18:00:00
Bid Opening Date/Time	27-07-2020 18:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	80 (Days)
Ministry/State Name	Ministry Of Coal
Department Name	Materials Management
Organisation Name	Mahanadi Coalfields Limited
Office Name	General Manager Materials Management Mcl Hqr
Total Quantity	1000
Item Category	Naturally Ventilated Poly House
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Certificate (Requested in ATC), OEM Authorization Certificate *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled	Yes
Inspection Required	No

### EMD Detail

Advisory Bank	State Bank of India
EMD Percentage(%)	2.00
EMD Amount	18800

### ePBG Detail

Advisory Bank	State Bank of India
ePBG Percentage(%)	10.00
Duration of ePBG required (Months).	14

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

**Beneficiary:**

Dy.GM(MM)

Area Materials Manager MCL Basundhara Area Balinga Post, Sundargarh Odisha.

(Alok Kumar Bhagat)

**Splitting**

Bid splitting not applied.

**Naturally Ventilated Poly House ( 1000 square meter )****Technical Specifications**[\\* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
Technical Specifications	Structural design	Gothic shape with roof and side ventilation. The structure is designed to be enough to with stand wind speed minimum 120 km / hour. It is to provide provision for opening one port at either side for entry of small tractor / power tiller for inter cultural practices.	*
	Size, sq.mts	1008-2080	1008-2080
	Rain water harvesting	Provision of PVC pipe of min 5 diameter with the lateral and ground support pipe with bend should be made, from gutter to ground for collecting rain water from the roof top. Drainage gutter and end caps to be provided.	*
	Cross Bracing	Every 3rd column top to 2nd column bottom of both sides must be connected 42mm OD with 2mm thickness GI pipe to ground the wind load. (In vegetable Poly houses to take the weight of the crop and transfer the wind pressure cross bracings are essential).	*
	Drip Irrigation System with fogging & misting facility	Drip irrigation system inside greenhouse need to be selected based on crop spacing along with fogging and misting facilities. The suggested bill of materials must have sand filter, screen filter, control valves, by-pass assembly, air release valve, non return valve, throttle valve, flush valve, venturi injecto with	*

	manifold, pvc pipes, ldpe plane lateral, emitting pipe, foggers & misters to be fixed w.R.T design. Water tank and fittings & accessories. Provision for micro sprinklers need be kept for top of the vents of the greenhouse (applicable only bis standards for all irrigation components as well as water tank).	
Foundations	Insert GI pipes of minimum 60 mm with 2 mm thick to have foundation depth of 75 mm with 2mm thick depending upon soil type and prevailing wind velocity, grouting of foundation column with cement concrete mixture of 1:2:4 using telescopic insertion of column is recommended	*
Purlins	48 mm OD with 2.0mm thickness at ridge gutter arch and 42/43 OD with 2.0 mm thickness for 2nd purline.	*
Trusses/Corridor	Bottom chord 60 mm OD, 2 mm thick, 8 mt long	*
Gutter slope (in %)	1.5	*
Gutter height from floor area	4 mt- upto 560sq.mts	*
Distance between consecutive column pipes	4	*
Shade Net	Use UV stabilized of 50% (115 to 120gsm) shade factor with motor operated mechanism for expanding and retracting. Size of net should be equal to the floor area of greenhouse. It is clarified that the Polythene/shade net has to be installed based on the crop selected by the farmer.	*
Entrance Door	Two hinge doors of size 1.5 m width & 2.5 m height double leaf made in plastic/FRP (fibre reinforced plastic) sheets mounted in suitable frame.	*
Entrance room	One entrance room of size 3 m x 3 m x 3 m ( L x W x H ) need be provided, covered with 200 micron UV stabilized transparent plastic film conforming Indian Standards (IS 15827: 2009)	*
Fasteners	High tensile strength and galvanized 120 GSM	*

Purlins member and others	43 mm,2mm thickness	*
Stay/ Hockey pipes	60mm OD with 2mm thickness, fixed in the ground without any joints and welding at a distance of 2.5 m	*
Ridge Vent (Slanting)	1.3	*
Fogging System	Suitable as per the crop, in consist of four way anti leak fogger 10-28 lph flow rate (working pressure should be mentioned at which it be able to get required particle size, fogger spacing along the lateral and lateral spacing) and particle size 80-100 micron, 16 mm lateral class-3, PVC pipe 6kg/cm <sup>2</sup> , valves, filter, pump, panel with volt meter, MCB, relay, temp and humidity sensors etc. complete application rate 3 mm/hr.	*
Fixing of cladding materials	All ends/joints of plastic film need to be fixed with two way aluminum (220grams/RM) / GI with 0.6 mm profiles with suitable locking arrangement along with curtain top. Wooden batons or PVC grippers need not be used for fixing the cladding materials.	*
Bottom to pillar Bracing	33mm OD with 2mm thickness 1.2m long bracing to be fixed from pillar to bottom.	*
Horizontal bracings	42mm OD with 2mm thickness horizontal bracing 2 Nos must provide each bay in both sides.	*
Gutter frame	2 mm thick and 450 mm width GI Sheet with perimeter of 450 mm and with industrial press, 100% leakage proof of galvanized sheet minimum of 275 GSM ( grams per sq.mt.) Zinc coating.	*
<b>Training</b>	Free training for operation and maintenance for one year.	Free training for operation and maintenance for one year.
Curtains and insect screen	Roll up UV stabilized 200 micron transparent plastic film as curtains need be provided up to 3.5 m height on all sides having Manual operated crank mechanism for opening and closing of curtains. However, if the farmer wants the motorized operation of the same, the	*

		agency should implement the same on charging additional cost. 40 mesh nylon insect proof nets (UV stabilized) of equivalent size need to be fixed inside the curtains, Anti-flapping strips are suggested to ensure smooth functioning of the curtain	
	Bay size (width of greenhouse should be at least 35 % of the desired length)	8 x 4 meter	*
	Structure	equivalent section conforming to Indian Standards IS 1161: 1998 and the structural member should be joined with fasteners properly.	*
	Longitudinal slope (in %)	1	*
	Ridge height (depending upon the Terrane, climatic conditions and wind)	6.25	*
	Side apron	UV stabilized HDPE woven fabric, not less than 200 GSM thick for a height of 60cm and 40 cm buried below ground vertically and 20cm horizontally. (HDPE woven fabric of 200 GSM will have more stability and with stand the pressure of upward as well as horizontal wind better than the polythene film)	*
	Ridge Vent (Vertical)	1	*
	Columns	76 mm OD, 2 mm thick	*
	Footpath	1m wide and 10 cm thick footpaths made of cement concrete ratio of 1:2:4 should be provided inside the greenhouse for required intercultural operation.	*
	Cladding material	UV stabilized 200 micron 5 Layer ,PE film conforming to Indian standards (IS 15827:2009) having properties like Anti dust, Anti-drip, Anti-fog, IR thermic, light diffusion and optional properties like Anti-sulphur, antiviral, UV blocking and also having minimum 85% level of light transmittance.	*
	Trusses member/Toparches	50mm OD with 2mm thickness,Bracing 33mm OD with 2.0 mm thickness	*
Certifications	Testing	Testing of both structural and plastic materials used in the green house should	*

		be tested by the NTH & CIPET or any other agencies for quality assurance (not older than 6 months report).	
Warranty	<b>Warranty</b>	Warranty for 5 years from the date of installation for structure excluding poly film and net and for poly film 3 years warranty for all material and installation defects on pro-rata basis	Warranty for 5 years from the date of installation for structure excluding poly film and net and for poly film 3 years warranty for all material and installation defects on pro-rata basis

\* Specifications highlighted in bold are the Golden Parameters.

\* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement ( allowed Values) by the Buyer.

#### Additional Specification Documents

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Ovais Ahmed. R	770076,Mahanadi Coalfields Limited, At & Po- Basundhara, Sundargarh, Basundhara-770076	1000	30

#### Bid Specific Additional Terms and Conditions

- 1.Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)
- 2.Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 25% of total value.
- 3.Preference to Make In India products (For bids less than 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document 50%. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---