



Name of Work: AGITATOR OF FGD SLURRY TANK

**Tender Ref No: E-6814/2021 Dt. 25/11/2021**

Name of the Bidder/ Bidding Firm / Company :		
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**ANNEXURE-1B : MAIN SUPPLY- VERTICAL/TOP ENTRY AGITATORS**

**PRICE SCHEDULE NOTES:**

1) Bidder may quote part / full scope for items (s)/group of items mentioned at S. No. 1.10,1.20. However bidder has to quote complete scope for any group of items, for example if bidder chooses to quote for item 1.10 of Annn-1A then bidder has to quote for all the fields under 1.10, i.e. 1.11 to 1.13 of Annn-1A. 2.11 to 2.14 of Annn-2, 1.11 to 1.18 of Annn-3 and further bidder has to quote for complete scope of items defined at Annexure-1A and so on. Failing to comply with the said requirement the bid shall be considered as incomplete and shall be liable for rejection.

2) Bidder to note that Bid shall be evaluated on itemwise basis against the prices quoted at

"Annx-1A, Sl no. 2.11 to 2.14 of Annx-2, Sl no. 1.1 of Annx-3"

OR

"Annx-1B, Sl no. 2.21 to 2.24 of Annx-2, Sl no. 2.1 to 2.6 of Annx-3".

respectively along with loading on account of guarantee power consumption (as applicable).

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**Item Rate BoQ**

**Tender Inviting Authority: BHEL-PEM**

Name of Work: AGITATOR OF FGD SLURRY TANK

**Tender Ref No: E-6814/2021 Dt. 24/11/2021**

Name of the Bidder/  
Bidding Firm  
/ Company :

## ANNEXURE-2 : SUPERVISION CHARGES

**PRICE SCHEDULE NOTES:**

1) No. of site visit(s) (except per man day charges for supervision) as mentioned at S.N. 2.11 and 2.21 may vary, depending upon site requirement. Any variation in no. of visits shall be exercised based on unit rate arrived from S.N. 2.11 and 2.21 respectively.

2) No. of days at site for supervision (travel time is excluded) as mentioned at S.N. 2.12 and 2.22 may vary, depending upon site requirement. Any variation in no. of days shall be exercised based on unit rate arrived from S.N. 2.12 and 2.22 respectively.

3) Prices quoted at sl no. 2.11, 2.12, 2.13, 2.14 AND 2.21, 2.22, 2.23, 2.24 shall be valid till the completion of warranty as per BHEL NIT.

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[illegible]

Tender Inviting Authority: BHEL-PEM

Name of Work: AGITATOR OF FGD SLURRY TANK

Tender Ref No: E-6814/2021 Dt. 25/11/2021

Name of the Bidder/  
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/ Company :

ANNEXURE-3 : MANDATORY SPARES

PRICE SCHEDULE NOTES:

- 1) Wherever bidder has indicated an item as not applicable, the same will have to be supplied free of cost, in case it is found applicable during detail engineering. Any cell left blank in the unpriced schedule shall be teated as "Quoted".
- 2) Bidder to provide mandatory spares as asked above for each type of tank separately, even in case type & size of tank of agitator is similar.
- 3) One set means 100% complete replacement of the particular component/equipment, as mentioned i.e., Set for the particular equipment, would include all components required to replace the item. For example, a set of bearing shall include all hardware normally required while replacing the bearings. It is further, intended that the assembly / sub-assembly which have different orientation (like left hand or right hand, top or bottom), different direction of rotation or mirror image positioning or any other reasons which result in maintaining two different sets of the spares to be used for the subject assembly / sub-assembly, these shall be considered as different types of assembly/sub-assembly.
- 4) Wherever the quantities have been indicated for each type, size, thickness, material, radius, range etc. these shall cover all the items supplied and installed.
- 5) In case spares indicated in the list are not applicable to the particular design offered by the bidder, the bidder should offer spares applicable to offered design with quantities generally in line with the approach followed in the above list.
- 6) Any item which is quoted as "not applicable" in the above list and is found to be "applicable" at a later date shall be supplied by the Bidder without any commercial implications. The Bidder shall note that if there in any change/ variation in equipment/ system during detail engineering which causes any change/ variation in the essential spares quantity, the same shall be supplied without any commercial implications. The price indicated for the mandatory spares shall be considered for the purpose of evaluation.
- 7) Mandatory spares shall not be dispatched before dispatch of corresponding main equipment. Pls. refer NIT for delivery schedule. The spares shall be treated and packed for a long storage under the climatic condition prevailing at site.
- 8) All spares supplied under this contract shall be strictly interchangeable with parts for which they are intended for replacements. These spares should include all mounted accessories like components, boards, add or items, fitting, connectors etc. and be complete in all respects so that the replacement of the main items by these spares does not require any additional item. The vendors must conform the pair to pair compatibility of each electrical spares modules with the modules supplied in the original package. All electronic modules should be pre-set and/or pre-programmed for ready use at site. Alternatively, suitable instruction sheet indicating the details of required PCB jumper position, BCD which is setting, EPROM/PROM listing etc should be packed along with each module. Also a caution mark sign should be put on all such module which needs pre-setting/pre-programming before putting them in to service. The spare shall be treated and properly packed for long term storage.
- 9) Each spare shall be clearly marked and labelled on the outside of the packing with its description. When more than one spare part is packed in single case, a general description of the contents shall be shown on the outside of such case and a detailed list enclosed. All cases, containers and other packages must be suitably marked and numbered for the purpose of identification.
- 10) Set for the particular equipment, would include all components required to replace the item, for example a set of bearing shall include all hardware normally required while replacing the bearings. It is further intended that the assembly / sub-assembly which have different orientation (like left hand or right hand, top or bottom), different direction of rotation or mirror image positioning or any other reasons which result in maintaining two different sets of the spares to be used for the subject assembly / sub-assembly, these shall be considered as different types of assembly/sub-assembly.
- 11) All the spares shall be manufactured along with the main equipment components as a continuous operation as per same specification and quality plan.
- 12) The Contractor shall warrant that all spares supplied will be new and in accordance with the Contract Documents and will be free from defects in design, material and workmanship.

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NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	TEXT #	NUMBER #	NUMBER	NUMBER	NUMBER	TEXT	NUMBER	NUMBER	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description			HSN CODE	Quoted Currency in INR / Other Currency	UNIT EX-WORKS PRICE (To be entered by the Indian Bidder in INR) OR UNIT C&F CHENNAI PRICE (To be entered by Foreign Bidder in foreign currency)	TOTAL EX-WORKS PRICE OR TOTAL C&F CHENNAI PRICE	FREIGHT RATE (To be entered by the Indian Bidder only)	FREIGHT AMOUNT	GST TYPE (To be entered by the Indian Bidder only)	GST RATE (To be entered by the Indian Bidder only)	GST AMOUNT	TOTAL AMOUNT Without Taxes (For Indian Bidder=TOTAL EX-WORKS + FREIGHT) OR (For Foreign Bidder= TOTAL C&F CHENNAI PRICE)	TOTAL AMOUNT With Taxes (For Indian Bidder=TOTAL EX-WORKS + FREIGHT + GST) OR (For Foreign Bidder= TOTAL C&F CHENNAI PRICE)	TOTAL AMOUNT In Words
		Quantity	Units												
1	2	4	5	7	12	13	14	15	16	18	20	21	53	54	55
1	HORIZONTAL/SIDE ENTRY AGITATORS- MANDATORY SPARES ITEMS														
1.1	AUXILIARY ABSORBENT TANK AGITATOR														
1.11	Impeller Assembly (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
1.12	Bearing Assembly (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
1.13	Motor (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
1.14	Belt and Pulley (If applicable) (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
1.15	Gear Box Assembly (If Applicable) (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
1.16	Agitators shaft assembly (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
1.17	Shaft seal (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
1.18	Complete Agitator Assembly (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
2	VERTICAL/TOP ENTRY AGITATORS- MANDATORY SPARES ITEMS														
2.1	LIMESTONE SLURRY STORAGE TANK AGITATORS														
2.11	Impeller Assembly (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
2.12	Bearing Assembly (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
2.13	Motor (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
2.14	Belt and Pulley (If applicable) (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
2.15	Gear Box Assembly (If Applicable) (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
2.16	Agitators shaft assembly (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
2.17	Complete Agitator Assembly (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
2.2	PRIMARY HYDRO-CYCLONE FEED TANK AGITATOR														
2.21	Impeller Assembly (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
2.22	Bearing Assembly (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
2.23	Motor (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
2.24	Belt and Pulley (If applicable) (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
2.25	Gear Box Assembly (If Applicable) (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
2.26	Agitators shaft assembly (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
2.27	Complete Agitator Assembly (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only
2.3	SECONDARY HYDROCYCLONE FEED TANK AGITATOR														
2.31	Impeller Assembly (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000			0.0000	0.0000	0.0000	INR Zero Only

2.32	Bearing Assembly (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.33	Motor (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.34	Belt and Pulley (If applicable) (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.35	Gear Box Assembly (If Applicable) (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.36	Agitators shaft assembly (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.37	Complete Agitator Assembly (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.4	FILTRATE WATER TANK AGITATOR													
2.41	Impeller Assembly (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.42	Bearing Assembly (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.43	Motor (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.44	Belt and Pulley (If applicable) (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.45	Gear Box Assembly (If Applicable) (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.46	Agitators shaft assembly (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.47	Complete Agitator Assembly (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.5	WASTE WATER TANK AGITATOR													
2.51	Impeller Assembly (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.52	Bearing Assembly (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.53	Motor (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.54	Belt and Pulley (If applicable) (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.55	Gear Box Assembly (If Applicable) (1 LOT= 1 no. of each type)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.56	Agitators shaft assembly (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.57	Complete Agitator Assembly (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.6	AGITATOR FOR DRAIN PIT ( FOR ABSORBER AREA, GYPSUM AREA AND LIMESTONE AREA)													
2.61	Impeller Assembly (1 LOT= 1 no. of each type & size)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.62	Bearing Assembly (1 LOT= 1 no. of each type & size)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.63	Motor (1 LOT= 1 no. of each type & size/rating)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.64	Belt and Pulley (If applicable) (1 LOT= 1 no. of each type & size)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.65	Gear Box Assembly (If Applicable) (1 LOT= 1 no. of each type & size)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.66	Agitators shaft assembly (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
2.67	Complete Agitator Assembly (1 LOT= 1 no. of each type and size)	1.00	LOT	84799040	INR		0.0000		0.0000		0.0000	0.0000	0.0000	INR Zero Only
Total in Figures												0.0000	0.0000	Zero Only
Quoted Rate in Words												Zero Only		

Tender Inviting Authority: BHEL-PEM

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ANNEXURE-4 : CIF CONTENT

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )

NUMBER #	TEXT #	NUMBER #	TEXT #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	DESCRIPTION	Quantity	Units	CURRENCY OF IMPORT	TOTAL CIF VALUE	TOTAL CIF VALUE	TOTAL AMOUNT In Words
1	2	4	5	12	13	53	55
1	LIST OF CIF ITEMS						
1.01	-	1.00	LOT	USD		0.0000	USD Zero Only
1.02	-	1.00	LOT	INR		0.0000	INR Zero Only
1.03	-	1.00	LOT	INR		0.0000	INR Zero Only
1.04	-	1.00	LOT	INR		0.0000	INR Zero Only
Total in Figures						0.0000	Zero Only
Quoted Rate in Words							

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**ANNEXURE-II of GCC Rev07 (COST OF WITHDRAWAL)**

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns. else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )

NOTES:

1. Cost of Withdrawal of deviation will be applicable on the basic price (i.e. excluding taxes, duties & freight) only.
2. All the bidders have to list out all their technical & commercial deviations (if any) in details in the above format.
3. Any deviation not mentioned above and shown separately or found hidden in offer, will not be taken cognizance of.
4. Bidder shall submit duly filled unpriced copy of above format indicating "quoted" in "cost of withdrawal of deviation" column of the schedule above along with their Techno-commercial offer, wherever applicable. In absence of same, such deviation(s) shall not be considered and offer shall be considered in total compliance to NIT.
5. Bidder shall furnish price copy of above format along with price bid.
6. The final decision of acceptance/ rejection of the deviations quoted by the bidder shall be at discretion of the Purchaser.
7. Bidders to note that any deviation (technical/commercial) not listed in above and asked after Part-I opening shall not be considered.
8. For deviations w.r.t. Credit Period, Liquidated damages, Firm prices if a bidder chooses not to give any cost of withdrawal of deviation loading as per Annexure-VII of GCC, Rev-07 will apply. For any other deviation mentioned in un-priced copy of this format submitted with Part-I bid but not mentioned in priced copy of this format submitted with Priced bid, the cost of withdrawal of deviation shall be taken as NIL.
9. Any deviation mentioned in priced copy of this format, but not mentioned in the un-priced copy, shall not be accepted.
10. All techno-commercial terms and conditions of NIT shall be deemed to have been accepted by the bidder, other than those listed in unpriced copy of this format.
11. Cost of withdrawal is to be given separately for each deviation. In no event bidder shall club cost of withdrawal of more than one deviation else cost of withdrawal of such deviations which have been clubbed together shall be considered as NIL.
12. In case nature of cost of withdrawal (positive/negative) is not specified it shall be assumed as positive.
13. In case of discrepancy in the nature of impact (positive/ negative), positive will be considered for evaluation and negative for ordering.

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GUARANTEED POWER CONSUMPTION FORMAT

NOTES:  
1) Power consumption (KW) of motors shall be measured at motor input terminals when the system operating at the rated capacity.  
2) Total Estimated Power Consumption Figure for the above mentioned Agitators is considered as 189 KW which is to be treated as base power. Declared Guaranteed Power Consumption in this Format duly signed and stamped shall be submitted along with technical bid. Total GPC given by the bidder shall not exceed 189 kW failing which offer of bidder will not be considered for evaluation.  
3) Total power ( @ S.No. F above) and not individual power quoted by bidder shall be termed as 'Guaranteed Power consumption' (GPC) and bidder shall be liable to demonstrate compliance to GPC value during PG test/ Demonstration test at site. If the actual power consumption exceeds 189 kW , liquidated damages shall be payable by the successful bidder at the rate of INR 249478/- per KW excess power consumption over 189 kW. Such liquidated damages may be recovered by the BHEL by deduction from the contract price or by enforcing the contract performance guarantee or in any other manner deemed fit by the BHEL. Acceptable short fall limit for GPC WITH LD will be (+1%) of base power ( 189 kW).

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NUMBER #	TEXT #	NUMBER #	NUMBER	NUMBER	NUMBER #	NUMBER #	TEX
Sl No.	Item Description	Quantity (Working)	Duty Factor	Standby	Power Consumption (KW) (at motor input terminal)	Power Consumption (KW)	
1	2	4	6	7	13	53	55
1	Limestone slurry storage tank agitator	2.00	1.0000	0		0.0000	
2	Primary hydro-cyclone feed tank agitator	1.00	1.0000	0		0.0000	
3	Secondary hydrocyclone feed tank agitator	1.00	1.0000	0		0.0000	
4	Filtrate water Tank Agitator	1.00	1.0000	0		0.0000	
5	Waste Water Tank Agitator	1.00	1.0000	0		0.0000	
Total in Figures						0.0000	
Quoted Rate in Words							