

TENDER NO: BALCO/COM/12022021/02

Scope of work
Flue wall demolition and rebuilding

Sl. No.	Service Description	Qty	UoM	
First Year (June'21 to May'22)				
1	Middle Flue wall demolition & rebuilding	180	no.	
2	End Flue wall demolition & rebuilding	60	no.	
Second Year (June'22 to May'23)				
1	Middle Flue wall demolition & rebuilding	180	no.	
2	End Flue wall demolition & rebuilding	60	no.	
FY 2023-24 (June'23 to May'24)				
1	Middle Flue wall demolition & rebuilding	180	no.	
2	End Flue wall demolition & rebuilding	60	no.	

1.1 Scope of work

- Manual Demolition of flue walls (Refractory bricks) using auxiliary EOT crane/FTA crane as per the SOP.
 - Shifting of scrap materials from work area to furnace end where scrap bricks were stored.
 - Shifting of fresh materials from store and inside department for rebuilding.
 - Rebuilding of flue walls as per the SOP.
 - Shifting of scrap bricks from ABF to scrap store area daily.
 - Supervisors should be trained for operating Auxiliary hoist of EOT crane/ FTA crane.
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- Shifting of scrap and wastage materials to scrap yard on weekly basis.
- 5S , AO, VSAP, safety standard, SAP, Quality Circle to be maintained as per the Balco standards/guidelines.
- All the spares & waste materials have to be kept at the designated place & cleaned the work area after the job.
- All safety PPES, tools-tackles, consumables lighting arrangement will be Contractor Scope.
- Maintenance of Lighting arrangement, cooling fan, platform, mixer machine will be under contractor scope.
- For any safety or misconduct / administrative failure, housekeeping issues, action will be taken as per Consequence management / balco guidelines.

1.2 Manpower Details:-

Category	Current gate pass numbers	FY 2021-22	FY 2022-23	FY 2023-24
		Proposed gate pass number	Proposed gate pass number	Proposed gate pass number
Unskilled	13	13	13	13
Semi-Skilled	0	0	0	0
Skilled	15	15	15	15
Highly Skilled	0	0	0	0
Safety In-charge	1	1	1	1
Supervisors	4	4	4	4
Site In charge	1	1	1	1
Total	34	34	34	34

Vehicle :

- 1) Forklift – 2 shift/day – Material Shifting and operation assistance
- 2) Hiwa – 1 shift/day – Scrap bricks shifting
- 3) JCB – 1 Shift /day – Scrap bricks shifting
- 4) Hydra / Hiwa – twice in week for scrap removal

1.3 Following Specific clauses :-

- Contractor has to ensure EOM distribution every month to 1 contractor employee. EOM Function to be organized before 10th of every month. Noncompliance would had to penalty of Rs. 5000/-
- Single Flue wall replacement in Bake Oven should be completed within 2 shifts. 1000 Rs/hr will be penalized beyond 2 shifts. If replacement is completed within 2 shifts, bonus of Rs 4000/ flue wall would be given.
- Double Flue wall replacement in Bake Oven should be completed within 4 shifts. 1000 Rs/hr will be penalized beyond 4 shifts. If replacement is completed within 4 shifts, bonus of Rs 4000/ flue wall would be given.
- All the tools, tackles, Safety equipment's, lights, torch light and machinery should be in party's scope.
- Job will be as per schedule given by engineer in charge.
- Job will be done as per the SOP and check sheet.
- Penalty for delayed removal of Scrap will be @ 10000 Rs per week.
- Penalty of any equipment damage will be charged as per severity.
- Cooling arrangement of furnace pits and fluewalls under contractor scope.
- Any Safety non compliance penalty will be charged as per severity.
- Any housekeeping non compliance in working area (Furnace and WMI) will be penalized INR 1000/fluewall replacement

1.4 PPE MATRIX for Bake Oven :

Safety Items/ PPEs	Frequency
Helmet	1 year
Helmet (Inner Head Band)	Half yearly
Gloves	Weekly
Ear Plugs	Weekly
Goggles	Monthly
Heat resistance Safety Shoes	Half yearly
Dust Mask	Bi-monthly
Uniform	Yearly

- Note – PPE distribution frequency mention is a change compulsion. In case, if it gets damage early, it is to be replaced immediately.
- Safety Belt , fall arrester under party scope.
- PME of all workers to be done in every 6 months and form 21 to be submitted.