PREQUALIFICATION FOR RETAINING WALL

The Vendor must provide below documents for pre-qualification:-

- Annual Turn Over of more than five crores
- Last three years P/L Statement/Balance Sheet/audited annual report.
- Number of Years in Business,
- ISO and Other Necessary Certifications
- Top 5 Clients Details.
- At least 5 years of experience of similar type of job.

Scope of work: As per attached BOQ & SOW

Protection of Alumina & Bauxite tracks from mudslide & water pooling including proper drainage(BOQ as mentioned below)

MVAA-AMB (16kms) rectification and proposed (rain cut) retaining wall(BOQ & SOW as mentioned Below)

Interested parties can submit their competitive offer within 07 days from the date of publication as per the EOI document at the e-mail address given below:

Eoiresponses@vedanta.co.in

BOQ FOR RETAINING WALL AT RAILWAY DEAD END

SL No	Item	Description	Unit	Quantity
1	Bush Cutting	Cleaning jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 2 M above ground level and removal of rubbish up to a distance of 100 m outside the periphery of the area cleared.	Sqm	2350
2	RCC Dismental	Dismantling RCC or PCC structure Work of walls, partition walls, parapets etc. made with maximum up to M30 grade concrete covered by breaker or any other heavy machinaries with either pointing or plaster including removing and transporting, unloading and spreading the debris as directed by EIC	Cum	200
3	Excavation	Earth in excavtion required for the construction of retaining wall foundation upto maximum 2m depth from ground level which includes mobilisation of manpower and machinaries and dressing the side slope to avoid collapse of the soil and ramming the base befor PCC and dumping the earth within 50m distance for utilisation in backfilling and completing the work as per drawing and discussion with EIC	Cum	2820
4	Filling	Earrth work in backfilling required for the railway embankment which includes excavation of loose dumped soil from the excavation and filling the emabankment area after constructin of foundation and compacting the same with plate vibrater and watering the same and achiee 98% compaction and completing the work as per drawing and instruction of EIC	Cum	2350
5	PCC	Supplying and laying of plain cement concrete using 1:2:4 proportion using 20mm downgrade aggregate of specified thickness(as per drawing) which includes leveling the top surface and necessary shuttering required for the concreting and curing and complete the work as per direction of EIC.	Cum	151
6	RCC	Providing and laying RCC of M-35 grade in Retaining wall of Railway embankment with 20mm & 10mm down aggregate as per mix design, wipe hole of 2" pvc pipe to be provided in 2M interval with expansion joints where required as per design & requirement at site which includes mobilisation of material,machinaries and manpower and arrangement of the water required for the concreting and curing and completing the work as per drawing and instruction of EIC	Cum	2051
7	Shuttering	Providing and fixing shuttering/formwork as per the shape required for the concreting in retaining wall which includes mobilisation of all material and manpower and supporting material required for the supporting of the shueering and completing the work as per drawing and direction of EIC	Sqm	4500
8	Steel	Supply,cutting and bending,fixing the reinforcement steel of required dia as per the drawing which is also includes chairs and supply of binding wire required for the binding and complete the work as per direction of EIC.	MT	270
9	Boulder packing	Providing and laying boulder in any shape (excluding circular / curved) at all height and above ground level including the cost of materials, labour, scaffolding,/staging, sampling and testing,cutting and laying of boulders, providing recasses adjacent to retaing wall for filter perpose all complete as per design and specifications.	Cum	1128
10	Weep Hole	Providing PVC pipes of 100 mm dia for discharge purpose	M	1081
11	Drain	Constuction of RCC drain	M	250

BOQ FOR RETAIN WALL IN BR NO.10

SL No.	Item	Description	Unit	Quanity
1	Excavation for Foundation	Excavation of earth maximum up to 3.5 mt depth for Retain Wall foundation and dressing the bottom for sa PCC and refill the earth after completion of masonary work and compact the earth properly and leveling the excess earth and complete the work as per direction of EIC	Cum.	2400
2	PCC	Supplying and laying of plain cement concrete using 1:4:8 proportion using 40mm downgrade aggregate of specified thickness(as per drawing) which includes leveling the top surface and necessary shuttering required for the concreting and curing and complete the work as per direction of EIC.	Cum.	92
3	Stone Masonary	Providing and laying stone masonry as per the drawing and requirement of site and joint to be filled with C.M. 1:6 and provide 4' pvc pipe for the weep holes 1nos @ 1 sqm area which includes transportation of material with all leads and lifts and dressing of the solpes if required and complete as per specification and drawings, finished as per directions of Engineer-in-Charge	Cum.	490
4	Excavation & Filling	Earth excavation & filling all kinds of works in all types of soil except hard rock as classified in specification including removal of vegetation,shrubs and debris, filling the earth in slope of the railway embankment keeping in view the site requirement, and be properly conmpacted for better subgrade and completion the work as per instruction of EIC	Cum.	6600
5	RCCM35	Providing and laying of reinforced cement concrete M35 grade as per weight mix and as per IR standard, using 20mm downgraded aggregates of specified dimension for retaining wall foundation in the all heights at all levels as per the spcification and drawing provided, complete the work as per instruction of EIC	Cum.	715
6	Shuttering	P & F centering & shuttering with steel shuttering plates or plyboard with all tools, tackles, labours etc. complete in all respect as per direction of EIC.	Sqm	1000
7	Reinforcement	Supllying,cutting and bending the reinforcement steel of required did. As per the drawing and fixing the reinforcement as per thedrawing which is also includes chairs and supply of binding wire required for the binding and complete the work as per direction of EIC.	Ton	102
8	Boulder Packing	Providing and laying stone packing in down stream adjacent of retain wall or elsewhere to the required thickness as per drawings, specifications with all leads and lifts as specified in the preamble and as per direction of engineer in-charge.	Cum	250

BOQ FOR OUTSIDE PLANT RAILWAY EMBANKMENT WORK(Except Br no.10)				
Embankment in Br no.17-20, Br no.28, Br no.33, Br no.38 & LC				
SL No.	**Item**	**Description**	**Unit**	**Quanity**
1	Excavation for Foundation	Excavation of earth maximum up to 3.5 mt depth for Retain Wall foundation and dressing the bottom for sa PCC and refill the earth after completion of masonary work and compact the earth properly and leveling the excess earth and complete the work as per direction of EIC	Cum.	2450
2	Dismantle	Dismantling hexagonal LC block or PCC structure Work of walls, partition walls, parapets etc. made with maximum up to M25 grade concrete covered by breaker or any other heavy machinaries with either pointing or plaster including removing and transporting, unloading and spreading the debris as directed by EIC	Cum.	120
3	PCC	Supplying and laying of plain cement concrete using 1:4:8 proportion using 40mm downgrade aggregate of specified thickness(as per drawing) which includes leveling the top surface and necessary shuttering required for the concreting and curing and complete the work as per direction of EIC.	Cum.	125
4	Stone Masonary	Providing and laying stone masonry as per the drawing and requirement of site and joint to be filled with C.M. 1:6 and provide 4' pvc pipe for the weep holes 1nos @ 1 sqm area which includes transportation of material with all leads and lifts and dressing of the solpes if required and complete as per specification and drawings, finished as per directions of Engineer-in-Charge	Cum.	1800
5	Excavation & Filling	Earth excavation & filling all kinds of works in all types of soil except hard rock as classified in specification including removal of vegetation,shrubs and debris, filling the earth in slope of the railway embankment keeping in view the site requirement, and be properly conmpacted for better subgrade and completion the work as per instruction of EIC	Cum.	3900
6	Murrom Filling	Murrom excavation & filling all kinds of works in all types of soil except hard rock as classified in specification including removal of vegetation,shrubs and debris, filling the earth in slope of the railway embankment keeping in view the site requirement, and be properly conmpacted for better subgrade and completion the work as per instruction of EIC	Cum.	1200
7	RCC M25	Providing and laying of reinforced cement concrete M25 grade(1:1:2) proportion using 20mm downgraded aggregates of specified dimension for retaining wall foundation in the all heights at all levels as per the spcification and drawing provided, complete the work as per instruction of EIC	Cum.	45
8	RCCM35	Providing and laying of reinforced cement concrete M35 grade as per weight mix and as per IR standard, using 20mm downgraded aggregates of specified dimension for retaining wall foundation in the all heights at all levels as per the spcification and drawing provided, complete the work as per instruction of EIC	Cum.	12
9	Shuttering	P & F centering & shuttering with steel shuttering plates or plyboard with all tools, tackles, labours etc. complete in all respect as per direction of EIC.	Sqm	590
10	Turfing	Providing and laying of turfing with pad/doob grass on down stream and for (6.71mts.along slope) of peripheral bund on upstream as per drawings, preamble specifications and directions of Engineer-in-Charge.	Sqm	8500

CROSS SECTION OF RETAINING WALL SHOWING REINFORCEMENT DETAILS

NOT TO SCALE

SHAPES & DIMENSIONS OF BARS IN RE

CROSS SECTION OF RETAINING WALL

SCALE – 1;100

NOTES :

* DO NOT S
* ALL THE D
DRAWING
* MINIMUM S
* DESIGN CR
* CONCRETE
* REINFORCI
* CONCRETE
PROPER C
* MIN. CLEA
* MIN. LAP
NOT MORE
* 75 MM WE
* M10 GRAD
LENGTH C
* THE EXAC
* EXTRA CA
PARTICULA

SCOPE OF WORK FOR CIVIL WORK IN RAILWAY EMBANKMENT (PLANT-AMBODALA)

1.0 Objective

Smooth movement of Locomotive in time of monsoon.

2.0 Scope Of Work:

2.1 Technical Requirement:

1. Visiting of site, collection of existing data, understand the present condition, technical discussion with site in charge.
2. Understand the details of BOQ submission and work to be executed for locomotive movement & also water management system during the monsoon.
3. Details of material availability at site for civil work construction with lead to construction site.
4. Details of material use at site with site availability, like sand, aggregates, boulder with lead to construction site.
5. Detail study of detail design and drawing provided by M/s RCC.
6. All work to be carried out as per designed drawing and technical specification. Any deviation should be mutually discussed and finalized.
7. Preparation of micro schedule mention the detail note for the phase wise construction of retain wall and embankment.
8. Manpower engage at site as per the project requirement.
9. Preparation of all the benchmarks as reference point before commencement of project work.
10. Submission of detail BOQ and technical specification for the work as per the drawing.
11. Approach road to be prepared to individual site for material movement in vendor scope only.
12. Necessary statutory approval related to work will be in vendor scope.
13. Local issues resolution if any.

2.2 Quality:

1. Preparation of detail working procedure with QAP, quality of material to be used for the construction & mention the IS code to followed for the design & drawing & also required for the construction included in the scope of work.
2. The design and material specifications of all equipment and components in scope shall confirm to latest technology and shall be suitable for the services intended.
3. The work shall be carried out as per relevant latest Indian Standards, codes, criteria and recommendations and in absence of latter the work shall be executed as per best practice and to the Indian Standard Specifications as may be desired by the Engineer.
4. Proper curing period will be ensured in RCC structures.
5. Party will give minimum 1 years of guarantee after completion of job.
6. Third party Consultant do the supervision of the construction activity coordination with consultant which includes establishment of QA & QC standards before

starting of work, certification of stage wise quality.

7. Construction material to be sent to government approved laboratory for QA & QC.

2.3 SAFETY :

1. Party has to follow all the safety rules and regulation as per the VL guidelines only.
2. Party has to maintain all the safety documents in printed format as per the requirement of M/s VL
3. Party shall be solely responsible for the adequacy, stability and safety of operations on the Site.
4. Preparation of Job Safety Analysis (JSA) before start of the project.
5. Permit to be taken from civil, mechanical, electrical & operation before start of the job from Refinery, Power plant and expansion project team.
6. Material and manpower remain at site with all safety and security.
7. Project to be carried out in day time only, but as per request job may be carried out at night with 100% safety and illumination and prior information to VL

3.0 Individual Task:

Br No. 10 : Ambodala side 25M RCC wall constructed to protect the abutment- 1, balance 30M boulder masonry damaged in last rain, additional 30M RCC retain wall to be constructed.
With retain wall soil filling & boulder packing to be made for embankment protection edge of abutment1.
Lanjigarh side 50M RCC wall to be constructed to protect abutment- 2 with soil filling & boulder packing.
Additional sand removal from river bed for river diversion.

Br no. 17-20 : The existing slope of embankment 1:1 deviate from design slope 1:2. So heavy rain cuts generated at site. Also bad quality of soil also generated the rain cuts.
So Boulder Masonry retain wall with soil filling & turfing.

Br No.28 : The embankment height more than 20M. No berm for Strengthening of embankment. So heavy rain cuts at site.
Boulder Masonry retain wall with soil filling, boulder packing on slope & turfing.

Br No.33(RUB):Village road level is higher than that of bridge invert level. At the time of monsoon soil from village side & embankment stored under RUB, which cause problem for manpower & machineries movement under RUB.
Boulder masonry retain wall to be provided both side of RUB.

Br No.38 : The existing embankment slope almost 1:1 side on Br no.38. So rain cuts narrow the embankment top width.
Soil Filling & Turfing.

Level Crossing: The existing LC damaged by heavy & regular movement of vehicles.
Repairing of LC with RCC road with removal of existing RCC blocks.

4.0 Deliverables:

Job to be carried out within 6months of PO place date.

5.0 Expected Outcomes:

Br No. 10	: Bridge & embankment protection.
Br No.17-20	: Embankment protection.
Br No.28	: Embankment protection.
Br no.33(RUB)	: Village road protection.
Br no.38	: Embankment strengthening.
LC	: Smooth movement of vehicle & track maintenance.