



महाराष्ट्र शासन

उप वनसंरक्षक, अलिबाग यांचे कार्यालय, अलिबाग

मु.पो.हिराकोट तलावाजवळ अलिबाग ता.अलिबाग जि.रायगड पी.नं. ४०२ २०१

दूरध्वनी क्र ०२१४१-२२२०१६/२२२२१६ Email ID: dycfalibag@mahaforest.gov.in

"वसवन्ती आम्हा सोयरे वनघरे"

जावक क्रमांक: ब/२०/जमिन/वसं/३५९/२०२५-२६.

दिनांक: २२/९/२०२५.

प्रति,

Chief Manager (Const.),
GAIL (India) Limited, CBD Belapur,
Navi Mumbai

विषय:- रायगड वन जमीन

Diversion of 3.9443 ha. Forest land under section-2 of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for Uran-Usar Propane laying 12" dia liquidpropane along with OFC in Uran, Panvel, Pen & Alibag Taluka, Raigad District in the State of Maharashtra- In-principal approval regarding.

- संदर्भ:- १) केंद्र शासनाचे पत्र क्र. FC-I/MH-३९२/२०२४-NGP/१४४७४, दि. १६.०७.२०२५
२) या कार्यालयाचे मागणी पत्र क्रमांक ब/२०/जमीन/२९३०, दि. १२.०९.२०२५
३) या कार्यालयाचे मागणी पत्र क्रमांक ब/२०/जमीन/३००१, दि. १६.०९.२०२५

केंद्र शासनाचे संदर्भित पत्र क्रमांक १ अन्वये विषयांकीत प्रस्तावांस अटी/शर्तीचे अधिन राहुन तत्त्वतः मंजूरी प्रदान करण्यात आली आहे. प्रकरणी त्या अनुषंगाने या कार्यालयाचे संदर्भित पत्र क्रमांक ३ अन्वये तत्त्वतः मंजूरी आदेशांतील अटी व शर्तीनुसार मागणी पत्र देण्यात आलेले आहे.

सदर मागणी पत्रात अट क्रमांक ५ बाबत रक्कममध्ये सुधारणा असल्याने, तत्त्वतः मंजूरी आदेशांतील अटी व शर्तीनुसार सुधारित मागणी पत्र तयार करून लगतप्रमाणे यासोबत जोडण्यात आली आहे. तरी सदर मागणी पत्रानुसार पुर्तता करून, अटनिहाय अहवाल आवश्यकते दस्तऐवजासह (आंगल भाषेत) सात प्रतीत या कार्यालयास सादर करावा. जेणे करून सदर पुर्तता अहवाल वरिष्ठमार्फत केंद्रशासनाकडे सादर करता येईल.

(राहुल पाटील, भा.व.से.)

सहपत्र:- वरील प्रमाणे.

उप वनसंरक्षक,
अलिबाग वन विभाग, अलिबाग

प्रतिलिपी:- अपर प्रधान मुख्य वनसंरक्षक व केंद्रस्थ अधिकारी, महाराष्ट्र राज्य, नागपूर यांचेकडे माहितीसाठी सादर.

प्रतिलिपी:- मुख्य वनसंरक्षक, ठाणे यांचेकडे माहितीसाठी सादर.



OFFICE OF THE DEPUTY CONSERVATOR OF FOREST, ALIBAG

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E-mail- dycfalibag@mahaforest.gov.in

"वृक्षवल्ली आम्हा सोयरे वनघरे"

Revise Demand Note

(See rule 8(1)(b) of the Forest (Conservation) Amendment Rules, 2014)

To,

Chief Manager (Const.),
GAIL (India) Limited, CBD Belapur,
Navi Mumbai

Sub:- Diversion of 3.9443 ha. Forest land under section-2 of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for Uran-Usar Propane laying 12" dia liquidpropane along with OFC in Uran, Panvel, Pen & Alibag Taluka, Raigad District in the State of Maharashtra- In-principal approval regarding

Ref: - Govt. of India Ministry of Environment, forest and Climate Change, Regional Office (WCZ), Nagpur's order No. F.No. FC-I/MH-392/2024-NGP/14474, Date 16.07.2025.

1. As per the reference cited above, The Chief Manager (Const.), GAIL (India) Limited, CBD Belapur, Navi Mumbai is requested to pay the item-wise amount of compensatory levies as per the following details.

Compensatory Levies

Sr. No.	Item	Condition NO. as mentioned in-principal approval	Amount in Rs.	Remarks
1	Cost of boundary demarcation of the diverted forest area (Area 3.9443 ha.)	2	60,89,683	Total Amount Transfer to CAMPA
2	Compensatory Afforestation (CA) (Degraded forest land Area 8.00 ha.)	3	62,61,061	
3	Net Present Value (NPV) (Area 3,9443 ha.)	5	44,05,389	
Total amount sends to CAMPA as per GoI conditions:			1,67,56,133	

2. The Project Authority the Chief Manager (Const.), GAIL (India) Limited, CBD Belapur, Navi Mumbai is also requested to submit the amounts, documents, certificates and undertaking as stipulated in the in-principal approval as per the following details.

Sr. No.	Condition No. as mentioned in-principal approval	Name of Document/Certificate/Undertaking required to be submitted by the User Agency
1	1	Undertaking required to be submitted by the User Agency
2	4	Undertaking required to be submitted by the User Agency
3	6	Undertaking required to be submitted by the User Agency
4	7	User agency shall be transferred/deposited above mentioned amount to CAMPA through e-portal and furnish the challan/receipt of color copy with RTGS/NEFT number and date in this regard.
5	8	FRA certificate and necessary compliance/supporting documents shall be furnished in English.
6	9	1) Permission from Hon'ble High Court for felling of Mangrove trees shall be obtained and submit with compliance report. 2) User agency shall submit demand draft for Rs 48,87,790/- (in words Rs. Forty Eight lakhs Eighty-Seven Thousand Seven Hundred Ninety only) in favour of the Deputy Conservator of Forest, Alibag payable at Alibag against the cost of felling of trees.
7	10	Undertaking required to be submitted by the User Agency to abide this condition.
8	11	Undertaking required to be submitted by the User Agency to abide this condition.
9	12	Undertaking required to be submitted by the User Agency to abide this condition.
10	13	If applicable, user agency submits the Environmental Clearance.
11	14	Undertaking required to be submitted by the User Agency to abide this condition.
12	15	Undertaking required to be submitted by the User Agency to abide this condition.
13	16	Undertaking required to be submitted by the User Agency to abide this condition.
14	17	Undertaking required to be submitted by the User Agency to abide this condition.
15	18	Undertaking required to be submitted by the User Agency to abide this condition.
16	19	Undertaking required to be submitted by the User Agency to abide this condition.
17	20	Undertaking required to be submitted by the User Agency to abide this condition.
18	21	The User Agency shall comply the same.
19	22	The user agency should be complied.

Please clearly mention the condition Number on the document / undertaking / certificates at the time of submission of compliance report.



(Rahul Patil, IFS)

Deputy Conservator of Forests,
Alibag Forest Division, Alibag.

Copy submitted to the Addl. Principal Chief Conservator of Forests & Nodal Officer, M.S. Nagpur for favour of information.

Copy submitted to the Chief Conservator of Forests, Thane for favour of information.

Sl No	Range	Demarcation
1	Panvel Range	34,96,629.00
2	Uran Range	2,84,125.00
3	Pen Range	3,40,871.00
4	Wadkhal Range	1,13,614.00
5	Alibag Range	18,54,444.00
	Total	60,89,683.00

Demarcation Estimate

Range: Panvel

Division: Alibag

Estimate – INR 34,96,629.00

GOVERNMENT OF MAHARASHTRA

FOREST DEPARTMENT



Alibag DIVISION.

Panvel RANGE.

DETAIL ESTIMATE

Name Of Work :- Construction of Class-I & Class-II Permanent Boundary Mark for Boundary Demarcation in Nere Old survey no. 346 New 193 and Ambivali Survey No. 45 in Nere Beat, vajapur Round in Panvel Range of Forest Division, Alibag

Grand Total Amount Rs. 3496629.00

FACE SHEET

Division :- Alibag Division

Sanction Estimate :-

Fund Head :-

Major Head :-

Minor Head :-

Service Head :-

Departmental Head :-

Estimate framed in the office of the Range Forest Office, Panvel Range in Alibag Division and the probable expenses that will incurred in the Construction of Class-I & Class-II Permanent Boundary Mark for Boundary Demarcation in Nere Old surge no. 346 New 193 and Ambivall Surve No. 45 in Nere Beat, vajapur Round in Panvel Range of Forest Division, Alibag

Total Cost Rs. 3496629.00

Administrative approved by

Technically sanctioned by

Estimate prepared by Range forest officer

Estimate Checked by

Call of Authority Divisional Forest Officer, Alibag Division

Specification- All these item of above work are to be carried out as per respective standard specification of PWD given read book

Certification 1. rates adopted are as per SSR of Maharashtra PWD for the year 2022-23

2. All calculations have been checked cent percent arithmetically

3. additional 10 % charges for tribal area is considered


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पनवेल


Range Forest officer
Panvel


(Rahul Patil, IFS)
Deputy Conservator of Forest,
Alibag Forest Division, Alibag

GENERAL REPORT

Name Of Work :-Construction of Class-I & Class-II Permanent Boundary Mark for Boundary Demarcation in Nere Old surve no. 346 New 193 and Ambivali Surve No. 45 in Nere Beat, vajapur Round in Panvel Range of Forest Division,Alibag

Authority Divisional Forest Officer,Alibag Division

Necessity Demarcation of the outer boundary of compartment (forest land boundary) is eccential.Hence this estimate is prepared.

Provision Following provision are made in this Estimate.

- 1 Clearing the site before given layout
- 2 Excavation 0.23mL below ground level in soft & hard murrum.
- 3 Providing and laying in situ, cement concrete M-10/(1:3:6)
- 4 Providing internal cement plaster 6 mm thick in a single coat in cement mortar 1:4
- 5 Providing and applying two coats of flat oil paint of approved colour
- 6 Providing and applying primer coat on concrete surface
- 7 Painting letters upto 20 cm height complete
- 8 Providing and applying two coats of exterior weather shield paint

Rates Rates adopted in the Estimate are as per SSR 2022-23 w.e.f 25-07- 2022

Specification The work will be carried out as per standard specification of Public Work Department, and as directed by Engineer-incharge from time to time

Lead Lead for Material Considered in Estimate is Given by RFO,Panvel

Follow the instruction given by the chief conservator of forest (PCCF) Ms Nagpur wiede his circular no. D-27/2/Ce.86/682/2019-20 date 27/01/2020 for forest boundary demarcation and erection of permanent boundary marks

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पनवेल

प्रतिष्ठित मन अधिकारी
पनवेल

Name Of Work :- Construction of Class-I & Class-II Permanent Boundary Mark for Boundary Demarcation in Nere Old surve no. 346 New 193 and Ambivali Surve No. 45 in Nere Beat, vajapur Round in Panvel Range of Forest Division, Alibag

RECAPITULATION SHEET

Sr. No.	ITEM OF WORK	AMOUNT (Rs.)
A	Total Work Portion Amount for Boundary Pillar (Class-I & II)	Rs. 2867154.85
	Add 3 % contingencies	86015
	Add 18.0% For GST On (A)	516088
	Add Royalty Charges for Boundary Pillar (Class-I & II) Amount	Rs. 3627.00
	Add Quality Control & Testing Charges for B.Pillar (Class-I & II)	Rs. 9409.00
	Total Amount (A + B + C) = D	Rs. 3482293.37
F	Add 0.50% for Labour Insurance On (A)	Rs. 14335.77
G	Gross Total Amount Rs (D+E +F)	Rs. 3496629.15
	Say	Rs. 3496629.00

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प्रादेशिक, मन्त्रजीव
पनवेल

Range Forest Officer
Panvel

**Name Of Work :- Construction of Class-I & Class-II Permanent Boundary Mark for Boundary Demarcation
in Nere Old survey no. 346 New 193 and Ambivali Surve No. 45 in Nere Beat, vajapur Round in Panvel
Range of Forest Division, Alibag**

ABSTRACT

Sr. No.	ITEM OF WORK	Unit	QTY.	RATE	AMOUNT
1	Removing grass, gazer grass and disposing off out of building premises including making clean the ground by shovel and phavaras etc. complete.	Sqmt	924.57	6.50	6010
2	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	Cum	134.931	223.40	30144
3	Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, com pacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc)	Cum	245.648	5772.27	1417945
4	Providing internal cement plaster 6mm. thick in a single coat in cement mortar 1:4 without Neeru finish to concrete surface in all positions, Including scaff ing and curing etc. complete.	Sqmt	1637.948	243.20	398344
5	Providing and applying two coats of flat oil paint of approved colour and shade to internal/external plastered surfaces Including scaffolding if necessary, cleaning and pre paring the surface (excluding primer coat) etc. complete.	Sqmt	176.95	109.00	19287
6	Painting letters upto 20 cm height complete brushes, coir brushes, dusting, cleaning, including cost of paint etc. complete.	Nos	17216.00	31.30	538861
7	Providing and applying two coats of exterior weather shield paint of approved manufac ture and of approved colour to the plastered surfaces Including cleaning ,preparing the plaster surface ,applying primer coat ,scaffolding if necessary, and watering the surface for two days etc complete. NOTE: For Item No. 15 to 18 prior approval of Superintending Engineer will be necessary	Sqmt	1434.38	318.30	456564

2867154.85

8 Royalty charges for sand separate statement attached

3627.00

9 Materials testing charges separate statement attached

9409.00

Total Work Portion Amount Rs

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पनवेल


Range Forest Officer
Panvel

Name Of Work :- Construction of Class-I & Class-II Permanent Boundary Mark for Boundary Demarcation in Nere Old surve no. 346 New 193 and Ambivali Surve No. 45 in Nere Beat, vajapur Round in Panvel Range of Forest Division, Alibag

MEASUREMENT SHEET

Total Nos of Class-I Boundary Mark = 185.00 Nos Length of Boundary = 348 Meeter
Total Nos of Class-II Boundary Mark = 353.00 Nos

ITEM OF WORK

Unit NO L B D/H QTY.

ITEM NO.1

Removing grass, gazer grass and disposing off out of building premises including making clean the ground by shovel and phavaras etc. complete.

As directed by Engineer in charge.

S.S.R. Item No.21.34/Page No.157

For Total No. of Class-I Boundary Pillar

Sqmt 185.00 1.50 1.50 416.25
(A) Net Qty. for Class-I Pillar 416.25

For Total No. of Class -II Boundary Pillar

Sqmt 353.00 1.20 1.20 508.32
(B) Net Qty. for Class-II Pillar 508.32
Net Qty. For Class-I & II Pillar(A+B) 924.570

ITEM NO. 2

Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means

Spec.No. :Bd.A1 Page No.259

S.S.R. Item No.21.02/Page No.153

For Total No. of Class-I Boundary Pillar

Cum 185.00 1.10 1.10 0.30 67.16
(A) Net Qty. for Class-I Pillar 67.16

For Total No. of Class -II Boundary Pillar

Cum 353.00 0.80 0.80 0.30 67.78
(B) Net Qty. for Class-II Pillar 67.78
Net Qty. For Class-I & II Pillar(A+B) 134.931

ITEM NO-3

Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, com pacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Natural Sand / Crushed sand VSI Grade finally washed etc)

Spec.No. :Bd. E. 1 Page No. 287

S.S.R. Item No.24.01/Page No.175

For Total No. of Class-I Boundary Pillar

For Trapezoidal Area

$(1.30/3) \times \{(0.36+0.81+\sqrt{0.36 \times 0.81})\}$
Cum 185.00 0.741 137.09

Volume of Pillar = $H/3 \{A_1+A_2+\sqrt{A_1A_2}\}$

$A_1=0.60 \times 0.60 = 0.36 \text{ Sqmt}, A_2=0.90 \times 0.90 = 0.81 \text{ Sqmt}, H = 1.30 \text{ mt}$

For Pedestal at top

Cum 185.00 0.23 0.23 0.23 2.251
(A) Net Qty. for Class-I Pillar 139.34

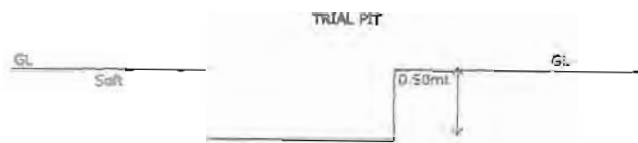
ITEM OF WORK	Unit	NO	L	B	D/H	QTY.
ITEM NO.6						
Painting letters upto 20 cm height complete brushes, colr brushers, dusting, cleaning, including cost of paint etc. complete.						
Spec.No.: MORTH 801						
S.S.R. Item No.6.05/Page No.46						
For Total No. of Class-I Boundary Pillar	Nos	185.00	4.00	8.00		5920.00
		(A) Net Qty. for Class-I Pillar				5920.00
For Total No. of Class -II Boundary Pillar	Nos	353.00	4.00	8.00		11296.00
		(B) Net Qty. for Class-II Pillar				11296.00
		Net Qty.For Class-I & II Pillar(A+B)				17216.00
ITEM NO.7						
Providing and applying two coats of exterior weather shield paint of approved manufac ture and of approved colour to the plastered surfaces Including cleaning ,preparing the plaster surface ,applying primer coat ,scaffolding if necessary, and watering the surface for two days etc complete. NOTE: For Item No. 15 to 18 prior approval of Superintending Engineer will As directed by Engineer incharge.						
S.S.R. Item No.35.26/Page No.225						
For Total No. of Class-I Boundary Pillar						
4 x ((0.90+0.60)/2) x 1.0 = 3.00	Sqmt	185.00	4.00	0.75	1.00	555.00
For Top area 0.60 x 0.60 = 0.36	Sqmt	185.00	1.00	0.60	0.60	66.60
		(A) Net Qty. for Class-I Pillar				621.60
For Total No. of Class -II Boundary Pillar						
4 x ((0.60+0.45)/2) x 1.05 = 3.38	Sqmt	353.00	4.00	0.525	1.00	741.30
For Top area 0.45 x 0.45 = 0.20	Sqmt	353.00	1.00	0.45	0.45	71.48
		(B) Net Qty. for Class-II Pillar				812.78
		Net Qty.For Class-I & II Pillar(A+B)				1434.38
Royalty charges for sand separeae statement attached	sand					157.376
Materials testing chartes separate statement attached						

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Range Forest Officer
Forest

Name Of Work :- Construction of Class-I & Class-II Permanent Boundary Mark for Boundary Demarcation in Nere Old survey no. 345 New 193 and Ambivali Survey No. 45 In Nere Best, vajapur Round In Panvel Range of Forest Division, Alibag

Sr.No	Material	Name of Quarry	Lead in KM	Lead Statement	
				Rate	Unit
1	Metal 6mm to 40mm	Uran	25 KM	566.86	Cu.M
2	Stone /Metal 80mm	Uran	25 KM	543.24	Cu.M
3	Sand	Uran	20 KM	488.73	Cu.M
4	Murum	Local	05 KM	252.22	Cu.M
5	Bricks	Local	05 KM	531.38	Per 1000 No.
				0.53	Per 1.0 No.
6	Steel	Uran	25 KM	413.27	M.T.
7	Cement	Uran	25 KM	413.27	M.T.
		Uran		20.66	Per Bag
8	Flooring Tiles	Uran	25 KM	41.33	Sq.M



RRO

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पन्वेल

Range Forest Officer
Panvel

**Construction of Class-I & Class-II Permanent Boundary Mark for Boundary Demarcation in Nere
Old surge no. 346 New 193 and Ambivali Surve No. 45 in Nere Beat, vajapur Round in Panvel
Range of Forest Division, Alibag
RATE ANALYSIS**

sr. no	Material	location	total lead kms	lead charges
1	Metal below 40 mm	Panvel	8	313.21
2	Metal above 40 mm	Panvel	8	300.16
3	sand	Panvel	8	313.21
4	cement	Panvel	8	208.43

1	Rmving grass gazer grass 21.34 Deduction 21% for labour amenities and cess in R.A. Add 10% for Tribal Area Add 21% for labour Amenities And cess in R.A.	Basic Rate Rs.	52	6 -1.26 4.74 0.47 1.26	
		Total		6.47	6.50
2	Excavation in Soil and Soft Murum 21.02 Deduction 21% for labour amenities and cess in R.A. Add 10% for Tribal Area Add 21% for labour Amenities And cess in R.A.	Basic Rate rs.	239	207 -43.47 163.53 16.35 43.47	
		Total		223.35	223.35
3	PCC M10 for foundation 24.01 Deduct for SCADA Deduction 21% for labour amenities and cess in R.A. Add 10% for Tribal Area metal 0.94 519.98 sand 0.47 519.98 cement 0.22 374.17 Add 21% for labour Amenities And cess in R.A.	Basic Rate	5830	5830 -126 5704 -1197.84 4506.16 450.62 488.78 244.39 82.32 1266.11	
		Total		5772.27	5772.27
4	6mm thick paster in cm 1.4 with neeru finish 32.01 Deduction 21% for labour amenities and cess in R.A. Add 10% for Tribal Area sand 0.0076 519.98 cement 0.054 374.17	Basic Rate	203	203 -42.63 160.37 16.04 3.952 20.205 42.63	
		Total		243.197	243.20
5	Providing and applying two coats of flat oil paint 32.12 Deduction 21% for labour amenities and cess in R.A. Add 10% for Tribal Area Add 21% for labour Amenities And cess in R.A.	Basic Rate	101	101 -21.21 79.79 7.98 21.21 108.98	109.0

6	painting letters upto 20 cm neight			
	6.05	Basic Rate	29	29.0
	Deduction 21% for labour amenities and cess in R.A.			-6.09
				22.91
	Add 10% for Tribal Area			2.29
7	Add 21% for labour Amenities And cess in R.A			6.09
				31.29
				31.3
	exterior weather shield paint			
	35.26		295	295
	Deduction 21% for labour amenities and cess in R.A.			-61.95
				233.05
	Add 10% for Tribal Area			23.31
	Add 21% for labour Amenities And cess in R.A			61.95
				318.31
				318.3

सहायक वनसंरक्षक
प्रादेशिक व वन्यजीव
पन्वेल

Range Forest Officer
Panna

Name Of Work :- Construction of Class-I & Class-II Permanent Boundary Mark for Boundary Demarcation in Nere Old survey no. 346 New 193 and Ambivall Survey No. 45 in Nere Beat, vajapur Round in Panvel Range of Forest Division, Alibag

Sr.No	Description of the Item	Unit	Total Qty. of Item	80mm. Metal		Murum		Sand		Rubble	
				Coefi.	Qty	Coefi.	Qty	Coefi.	Qty	Coefi.	Qty
I	Royalty Statement For Class -I Boundary Mark										
1	Providing and laying Cast in situ/Ready Mix cement	Cum	16.57	0.00	0.00	0.00	0.00	0.470	7.79	0.00	0.00
2	Providing internal cement plaster 6mm. thick in a single coat in cement mortar 1:4	Sqmt	93.72	0.00	0.00	0.00	0.00	0.0076	0.71	0.00	0.00
		Total Qty.			0.00		0.00		8.50		0.00
		Royalty Charges per Cum			144.16		144.16		158.30		144.16
		Deduct Royalty Amount Rs.			0.00		0.00		1345.55		0.00
		Total Amount Rs.		1345.00							
II	Royalty Statement For Class -II Boundary Mark										
1	Providing and laying Cast in situ/Ready Mix cement	Cum	25.64	0.00	0.00	0.00	0.00	0.470	12.05	0.00	0.00
2	Providing internal cement plaster 6mm. thick in a single coat in cement mortar 1:4	Sqmt	192.75	0.00	0.00	0.00	0.00	0.0076	1.46	0.00	0.00
		Total Qty.			0.00		0.00		13.52		0.00
		Royalty Charges per Cum			144.16		144.16		158.30		144.16
		Deduct Royalty Amount Rs.			0.00		0.00		2139.72		0.00
		Total Amount Rs.		2282.00							
Total Amount of Royalty for Class-I & Class -II Boundary mark				3627.00							

राहायक वनसंरक्षक
प्रदेशिक व वन्यजीव
पनवेल

Range Forest Officer
P'ns Ver

Name Of Work :- Construction of Class-I & Class-II Permanent Boundary Mark for Boundary Demarcation in Nere Old surve no. 346 New 193 and Ambivali Surve No. 45 in Nere Beat, vajapur Round in Panvel Range of Forest Division, Alibag

NOTE : Provision for laboratory testing charges. For reimbursement of actual amount of testing charges paid by the contractor, he should produce documentary evidences along with laboratory reports from approved registered Govt. Laboratory of Pwd/Engineering College Etc.

Provision of Quality Control Test and Materials Testing Charges (as per CSR Sr.No.9, Page No. Iv) Rate as per Vigilance & Quality Control Circle.

Name of Tests	No. of Test	Rate per Test	Frequency	Amount
Testing Charges For Class - I & Class - II Boundary Mark				
1) Basic Test of Cement				
Standard Consistency Finess, Specific Gravity, Setting Time (Initial & Final), Compressive Strength, Soundness.	0.00	3770	1.00	3770.00
Test on concrete Compressive strength of cc cub	0.00	3770	1.00	3770.00
Test for metal				
Sieve analysis	1.00	699	1.00	699.00
abrasion value	1.00	1170	1.00	1170.00
Total Amount Rs.				9409.00

मानाख्यक वनपरिक्षक
प्रदेशिक व वन्यजीव
पन्नेल

Range Forest Officer
Panvel

Demarcation Estimate

Range: Uran

Division: Alibag

Estimate – INR 2,84,125.00

DETAIL ESTIMATE

FOREST DEPARTMENT



**Division - Alibag
Uran - Range**

Erection of Boundary Demarcation Pillars

Nos. | 50

Name of Work:- Boundary Demarcation Pillars at Uran - Usar Propane laying 12" dia liquidpropane along with OFC In Uran, Tal. Uran.

Work Portion Amount Rs. 284125.00

FACE SHEET

Division . Alibag
Sanction Estimate :-
Fund Head :-
Major Head :-
Minor Head :-
Service Head :-
Departmental Head :-

Estimate framed in the office of the Range Forest Office, Uran Range and the probable expenses that will incurred in the Erection of boundary demarcation pillar

Total Amount Rs. 284125.00

Administrative approved under No. Dated

Technically sanctioned under No. Dated

Estimate prepared by Shri N G KOKARE

Estimate Checked by Shri N G KOKARE

Call of Authority D.F.O., Alibag

General Description as per separate sheet attached


Range Forest Officer
Uran


(Rahul Patil, IFS)
Deputy Conservator of Forest,
Alibag Forest Division, Alibag

GENERAL REPORT

Name of Work:- Boundary Demarcation Pillars at Uran - Usar Propane laying 12" dia liquidpropane along with OFC in Uran, Tal. Uran.

No. of Boundary Pillars

50

Nos.

Total Amount Rs. 284125.00

Authority

D.F.O., Alibag

Necessity

For Diversion of 0.05 ha Mangrove Forest Land for construction of road at Naval Station (Karanja) in Mumbai naval harbor along with associated service in village Kegaon, Tal. Uran, Dist. Raigad in State of Maharashtra. The Boundary Demarcation Pillars needed to be constructed in boundary line for mangrove conservation and demarcation.

Provision

Following provision are made in this Estimate.

- 1 Clearing and grubbing road land including uprooting rank
- 2 Excavation for foundation in earth, soil of all types, sand, gravel and soft murum
- 3 Dewatering on BHP basis by using water pump of 3.0 BHP
- 4 Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling
- 5 Providing and laying Cast in situ/Ready Mix cement concrete in M-10 PCC
- 6 Providing and fixing 100 mm dia. Country teak wood ballies
- 7 Providing and applying coal tar in two coats on new wood work
- 8 Providing and laying concrete pipes of I.S.NP. class of 150mm dia
- 9 Providing and laying Cast In situ/Ready Mix cement concrete in M20
- 10 Providing and applying white-wash
- 11 Providing and applying two coats of flat oil paint
- 12 Painting with approved enamel paint in two coats

Rates

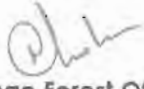
Rates adopted in the Estimate are as per SSR 2022-23 w.e.f 15-08-2022.

Specification

The work will be carried out as per standard specification of Public Work Department and as directed by Engineer-incharge from time to time

Range Forest Officer
Uran

Mumbai Mangrove Conservation Unit		
Name of Work:- Boundary Demarcation Pillars at Uran - Usar Propane laying 12" dia liquidpropane along with OFC in Uran, Tal. Uran.		
RECAP SHEET		
Sr. No.	Description	Amount
1	Total Cost of Boundary Demarcation Pillars	231938.89
	Add 18 % FOR @ G.S.T	41749.00
	Add 0.5% Insurance	1159.69
	Add 4% Contingency	9277.56
	Total	284125.14
	SAY	2,84,125.00

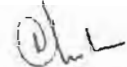

 Range Forest Officer
 Uran

Name of Work:- Boundary Demarcation Pillars at Uran - Usar Propane laying 12" dia liquidpropane along with OFC in Uran, Tal. Uran

Measurement & Abstract.

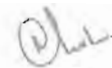
Item No	ITEM OF WORK	Unit	NO	L	B	D/H	QTY.	Rate	Amount
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means								
	P.W.D. S.S.R. 2022-23/Item No.21.02/Page No.189								
		Cu.m	50.00	0.70	0.70	1.13	27.69		
						Net Qty.	27.69	217.35	6018.42
2	Dewatering on BHP basis by using water pump including diversion of stream, providing cofferdams, earthen bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using 3.0 BHP pump etc. complete. (prior approval of Superintending Engineer will be necessary)								
	P.W.D. S.S.R. 2022-23/Item No.12.22/Page No.104		Day	Hr.					
	Pump	hours	50.00	1			50.00		
						Net Qty.	50.00	187.95	9397.50
3	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.								
	P.W.D. S.S.R. 2022-23/Item No.21.40/Page No.194								
	Soling 230mm thick	Cu.m	50.00	0.7	0.7	0.23	5.64		
						Net Qty.	5.640	2124.62	11982.86
4	A Providing and laying in situ / ready mix / ready mix M15 cement concrete of trap/ granite/ quartzite/ gneiss metal in oundation including necessary centering, formwork, bailing out water, compacting and curing etc. complete. (with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) with natural /artificial sand)								
	P.W.D. S.S.R. 2022-23/Item No.24.04/Page No.215								
	PCC	Cu.M	50.00	0.7	0.7	0.1	2.45		
						Net Qty.	2.450	7762.36	19017.79
	Providing and laying concrete pipes of I.S.NP. class of 150mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:3 and refilling the trench complete								
	P.W.D. S.S.R. 2022-23/Item No.42.07/Page No.342								
	Boundary Pillar	Rmt	50	2			100.00		
						Net Qty.	100.00	556.50	55650.00
6	Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap / ranite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening themif special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The ement Mortar 1:3 plaster is considered for rendering uneven and oneycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.).								
	PWD SSR 2020-21 Item no.24.10 /page no.216								
	Foundation block Below G.L	Cu.M	50.00	0.6	0.6	0.8	14.40		
	Foundation Block Above G.L	Cu.M	50.00	0.45	0.45	0.2	2.03		

Item No	ITEM OF WORK	Unit	NO	L	B	D/H	QTY.	Rate	Amount
	Inside Pipe (pl x r x t) xl	Cu.M	50.00	0.0100		1.3	0.650		
	Deduction For Pipe	Cu.M	-50.00	0.020		1	-1.000		
						Net Qty.	16.08	7762.36	124818.81
7	Providing and applying white-wash in one coat on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.								
	P.W.D. S.S.R. 2022-23 Item No.36.02/ Page No.279								
	White wash for outer surface of pipe	Sq.M	50.00	0.47		1.00	23.55		
		Sq.M	50.00	0.02			0.88		
						Net Qty.	24.43	8.40	205.21
8	A Providing and applying two coats of flat oil paint of approved colour and shade to internal / external plastered surfaces including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete.								
	PWD SSR 2020-21 Item No. 35.12/ Page No 276								
	oil paint on outer face of pipe	Sq.M		As per White Wash Qty			24.43		
						Net Qty.	24.43	106.05	2590.80
9	Painting with approved enamel paint in two coats including cleaning surface and lettering for Boundary Stonestone etc. complete.								
	PWD SSR 2020-21 Item No. 6.04d/ Page No 53								
		Nos.	50.00				50.00		
						Net Qty.	50.00	45.15	2257.50
									231938.89


 Range Forest Officer
 Uran

Name of Work:- Boundary Demarcation Pillars at Uran - Usar Propane laying 12" dia liquid propane along with OFC In Uran, Tal. Uran.

Lead Statement					
Sr.No	Material	Location of Quarry	Lead In KM	Rate	Unit
1	Metal 6mm to 40mm	Panvel	20 KM	488.73	Cu.M
2	Metal 40mm & Above	Panvel	20 KM	468.37	Cu.M
3	Sand	Panvel	20 KM	488.73	Cu.M
4	Stone / Rubble	Panvel	20 KM	597.92	Cu.M
5	Cement	Nearby Location	05 KM	164.99	MT
				8.25	Per Bag
6	Steel	Nearby Location	05 KM	164.99	MT
7	Murum, Building Rubish, Earth	Nearby Location	10 KM	330.77	Cu.M


 Range Forest Officer
 Uran |

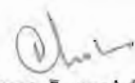
Division - Allbag, Range - Uran

RATE ANALYSIS (PWD - SSR / 2022-23)

Name of Work:- Boundary Demarcation Pillars at Uran - Usar Propane laying 12" dia liquid propane along with OFC in Uran, Tal. Uran.

SR NO	Reference	ITEM	RATE IN RS.	UNIT
1	P.W.D. S.S.R. 2022-23 Item No.21.02/Page No.189	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	207.00	CUM
		Add 5% for Corporation Area	10.35	
			217.35	CUM
2	P.W.D. S.S.R. 2022-23 Item No.12.22/Page No.104	Dewatering on BHP basis by using water pump including diversion of stream, providing cofferdams, earthen bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using 3.0 BHP pump etc. complete. (prior approval of Superintending Engineer will be necessary)	179.00	
		Add 5% for Corporation Area	8.95	
			187.95	BHP
3	P.W.D. S.S.R. 2022-23 Item No.21.40/Page No.194	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.	1454.00	CUM
		Add 5% for Corporation Area	72.70	
		Add 20 km lead	597.92	
			2124.62	CUM
4	P.W.D. S.S.R. 2022-23 Item No.24.04/Page No.215	A. Providing and laying in situ / ready mix / ready mix M15 cement concrete of trap/ granite/ uartzite/ gneiss metal in oundation including necessary centering, formwork, bailing out water, compacting and curing etc. complete. (with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) with natural /artificial sand)	6359.00	
		Add 5% for Corporation Area	317.95	
		Add Lead for cement(6x8.25)	49.50	
		Add Lead for Sand (488.73x0.4)	195.49	
		Add lead for Metal(488.73x0.9)	439.86	
			7361.80	CUM
5	P.W.D. S.S.R. 2022-23 Item No.42.07/Page No.342	Providing and laying concrete pipes of I.S.NP. class of 150mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete	530.00	RMT
		Add 5% for Corporation Area	26.50	
			556.50	RMT
6	PWD SSR 2020-21 Item no.24.10 /page no.216	Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap / ranite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The cement Mortar 1:3 plaster is considered for rendering uneven and oneycombed surface only. Newly laid concrete shall be covered by	6721.00	CUM
		Add 5% for Corporation Area	336.05	
		Add Lead for cement(7x8.25)	57.75	

SR NO	Refrance	ITEM	RATE IN RS.	UNIT
		Add Lead for Sand (488.73x0.425)	207.71	
		Add lead for Metal(488.73x0.9)	439.86	
			7762.36	CUM
7	P.W.D. S.S.R. 2022-23 Item No.36.02/Page No.279	Providing and applying white-wash in one coat on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.	8.00	Sqm
		Add 5% for Corporation Area	0.40	
			8.40	Sqm
8	PWD SSR 2020-21 Item No. 35.12/ Page No 276	A Providing and applying two coats of flat oil paint of approved colour and shade to internal / external plastered surfaces including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete	101.00	Sqm
		Add 5% for Corporation Area	5.05	
			106.05	Sqm
9	PWD SSR 2020-21 Item No. 6.04d/ Page No 53	Painting with approved enamel paint in two coats including cleaning surface and lettering for Boundary Stonestone etc. complete.	43.00	CUM
		Add 5% for Corporation Area	2.15	
			45.15	CUM


 Range Forest Officer
 Uran

Demarcation Estimate

Range: Pen

Division: Alibag

Estimate – INR 3,40,871.00

DETAIL ESTIMATE

FOREST DEPARTMENT



**Division - Alibag
Pen - Range**

Erection of Boundary Demarcation Pillars

Nos. | 60

Name of Work:- Boundary Demarcation Pillars at Uran - Usar Pipeline, Tal. Pen.

Work Portion Amount Rs. 340871.00

FACE SHEET

Division **Alibag**
Sanction Estimate :-
Fund Head :-
Major Head :-
Minor Head :-
Service Head :-
Departmental Head :-

Estimate framed in the office of the Range Forest Office, Pen Range and the probable expenses that will incurred in the Erection of boundary demarcation pillar

Total Amount Rs. 340871.00

Administrative approved under No. Dated

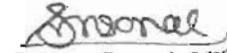
Technically sanctioned under No Dated

Estimate prepared by Shri

Estimate Checked by Shri

Call of Authority **D.F.O., Alibag**

General Description as per separate sheet attached


Range Forest Officer
Pen


(Rahul Patil, IFS)
Deputy Conservator of Forest,
Alibag Forest Division, Alibag

GENERAL REPORT

Name of Work:- Boundary Demarcation Pillars at Uran - Usar Pipeline, Tal. Pen.

No. of Boundary Pillars

60

Nos.

Total Amount Rs. 340871.00

Authority

D.F.O., Alibag

Necessity

For Diversion of area for Uran - Usar Pipeline, Tal. Pen., Dist. Raigad in State of Maharashtra. The Boundary Demarcation Pillars needed to be constructed in boundary line for mangrove conservation and demarcation.

Provision

Following provision are made in this Estimate.

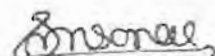
- 1 Clearing and grubbing road land including uprooting rank
- 2 Excavation for foundation in earth, soil of all types, sand, gravel and soft murum
- 3 Dewatering on BHP basis by using water pump of 3.0 BHP
- 4 Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling
- 5 Providing and laying Cast in situ/Ready Mix cement concrete in M-10 PCC
- 6 Providing and fixing 100 mm dia. Country teak wood ballies
- 7 Providing and applying coal tar in two coats on new wood work
- 8 Providing and laying concrete pipes of I.S.NP. class of 150mm dia
- 9 Providing and laying Cast in situ/Ready Mix cement concrete in M20
- 10 Providing and applying white-wash
- 11 Providing and applying two coats of flat oil paint
- 12 Painting with approved enamel paint in two coats

Rates

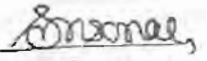
Rates adopted in the Estimate are as per SSR 2022-23 w.e.f 15-08-2022.

Specification

The work will be carried out as per standard specification of Public Work Department and as directed by Engineer-in-charge from time to time


Range Forest Officer
Pen

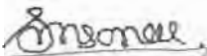
Mumbai Mangrove Conservation Unit		
Name of Work:- Boundary Demarcation Pillars at Uron - Usar Pipeline, Tal. Pen.		
RECAP SHEET		
Sr. No.	Description	Amount
	Total Cost of Boundary Demarcation Pillars	278261.83
	Add 18 % FOR @ G.S.T	50087.13
	Add 0.5% Insurance	1391.31
	Add 4% Contingency	11130.47
	Total	340870.74
	SAY	3,40,871.00


 Range Forest Officer
 Pen

Name of Work:- Boundary Demarcation Pillars at Uran - Usar Pipeline, Tal. Pen.

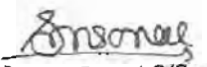
Measurement & Abstract.									
Item No	ITEM OF WORK	Unit	NO	L	B	D/H	QTY.	Rate	Amount
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring or strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means								
	P.W.D. S.S.R. 2022-23Item No.21.02/Page No.189								
		Cu.m	60.00	0.70	0.70	1.13	33.22		
						Net Qty.	33.22	217.35	7220.37
2	Dewatering on BHP basis by using water pump including diversion of stream, providing cofferdams, earthen bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using 3.0 BHP pump etc. complete. (prior approval of Superintending Engineer will be necessary)								
	P.W.D. S.S.R. 2022-23Item No.12.22/Page No.104			Day	Hr.				
	Pump	hours	60.00	1			60.00		
						Net Qty.	60.00	187.95	11277.00
3	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.								
	P.W.D. S.S.R. 2022-23Item No.21.40/Page No.194								
	Soling 230mm thick	Cu.m	60.00	0.7	0.7	0.20	6.76		
						Net Qty.	6.760	2124.62	14362.43
4	A. Providing and laying in situ / ready mix / ready mix M15 cement concrete of trap/ granite/ quartzite/ gneiss metal in foundation including necessary centering, formwork, bailing out water, compacting and curing etc. complete (with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) with natural /artificial sand)								
	P.W.D. S.S.R. 2022-23Item No.24.04/Page No.215								
	CCC	Cu.M	60.00	0.7	0.7	0.1	2.94		
						Net Qty.	2.940	7762.36	22821.35
5	Providing and laying concrete pipes of I.S.NP. class of 150mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:3 and refilling the trench complete								
	P.W.D. S.S.R. 2022-23Item No.42.07, Page No.342								
	Boundary Pillar	Rmt	60	2			120.00		
						Net Qty.	120.00	556.50	66780.00
6	Providing and laying Cast in situ/Ready mix cement concrete in M20 of trap / granite/quartzite/gneiss metal for bed blocks foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening (if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed).								
	PWD SSR 2020-21 Item no.24.10 /page no.216								
	Foundation block Below G.L	Cu.M	60.00	0.6	0.3	0.3	17.28		
	Foundation Block Above G.L	Cu.M	60.00	0.45	0.45	0.2	2.43		

Item No	ITEM OF WORK	Unit	NO	L	B	D/H	QTY.	Rate	Amount
	Inside Pipe (di x r x r)XL	Cu.M	60.00	0.0100		1.3	0.780		
	Duduction For Pipe	Cu.M	-60.00	0.020		1	-1.200		
						Net Qty.	19.29	7762.36	149736.00
7	Providing and applying white-wash in one coat on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.								
	P.W.D S.S.R. 2022-23Item No.36.02/Page No.279								
	White wash for outer surface of masonry	Sq.M	60.00	0.47		1.00	28.26		
		Sq.M	60.00	0.02			1.06		
						Net Qty.	29.32	8.40	246.29
8	A. Providing and applying two coats of flat oil paint of approved colour and shade to internal / external plastered surfaces including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete								
	PWD SSR 2020-21 Item No. 35.12/ Page No 276								
	oil paint on outer face of pipe	Sq.M		As per White Wash Qty			29.32		
						Net Qty.	29.32	106.05	3109.39
9	Painting with approved enamel paint in two coats including cleaning surface and lettering for Boundary Stonestone etc. complete.								
	PWD SSR 2020-21 Item No. 6.04d/ Page No 53								
		Nos	60.00				60.00		
						Net Qty.	60.00	45.15	2709.00
									278261.83


 Range Forest Officer
 Pen |

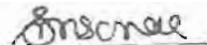
Name of Work:- Boundary Demarcation Pillars at Uran - Usar Pipeline, Tal. Pen.

Lead Statement					
Sr No	Material	Location of Quarry	Lead in KM	Rate	Unit
1	Metal 6mm to 40mm	Panvel	20 KM	488.73	Cu.M
2	Metal 40mm & Above	Panvel	20 KM	468.37	Cu.M
3	Sand	Panvel	20 KM	488.73	Cu.M
4	Stone / Rubble	Panvel	20 KM	597.92	Cu.M
5	Cement	Nearby Location	05 KM	164.99	MT
				8.25	Per Bag
6	Steel	Nearby Location	05 KM	164.99	MT
7	Murum, Building Rubish, Earth	Nearby Location	10 KM	330.77	Cu.M


Range Forest Officer
Pen

Division - Allbarg, Range - Pen				
RATE ANALYSIS { PWD - SSR / 2022-23}				
Name of Work:- Boundary Demarcation Pillars at Uran - Usar Pipeline, Tal. Pen.				
SR NO	Refrance	ITEM	RATE IN RS.	UNIT
1	P.W.D. S.S.R. 2022-23 Item No.21.02/Page No.189	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring on strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	207.00	CUM
		Add 5% for Corporation Area	10.35	
			217.35	CUM
2	P.W.D. S.S.R. 2022-23 Item No.12.22/Page No.104	Dewatering on BHP basis by using water pump including diversion of stream, providing cofferdams, earthen bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using 3.0 BHP pump etc. complete. (prior approval of Superintending Engineer will be necessary)	179.00	
		Add 5% for Corporation Area	8.95	
			187.95	6HP
3	P.W.D. S.S.R. 2022-23 Item No.21.40/Page No.194	Providing soling using 80 mm size trap metal in 1.5 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.	1454.00	CUM
		Add 5% for Corporation Area	72.70	
		Add 20 km lead	597.92	
			2124.62	CUM
4	P.W.D. S.S.R. 2022-23 Item No.24.04/Page No.215	A Providing and laying in situ / ready mix / ready mix M15 cement concrete of trap/ granite/ quartzite/ gneiss metal in foundation including necessary centering, formwork, bailing out water, compacting and curing etc. complete. (with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) with natural /artificial sand)	6359.00	
		Add 5% for Corporation Area	317.95	
		Add Lead for cement(488.73x0.25)	49.50	
		Add Lead for Sand (488.73x0.4)	195.49	
		Add lead for Metal(488.73x0.9)	439.86	
			7361.80	CUM
5	P.W.D. S.S.R. 2022-23 Item No.42.07/Page No.342	Providing and laying concrete pipes of I.S.NP. class of 150mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete	530.00	RMT
		Add 5% for Corporation Area	26.50	
			556.50	RMT
6	PWD SSR 2020-21 Item no 24.10 /page no.216	Providing and laying Cast insitu/Ready Mix cement concrete in M20 of trap / granite/quartzite/gneiss. metal for bed blocks, foundation blocks and such other items including bailing out water, steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by	6721.00	CUM
		Add 5% for Corporation Area	336.05	
		Add Lead for cement(7x8.25)	57.75	

SR NO	Refrance	ITEM	RATE IN RS.	UNIT
		Add Lead for Sand (488.73x0.425)	207.71	
		Add lead for Metal(488.73x0.9)	439.86	
			7762.36	CUM
7	P.W.D. S.S.R. 2022-23 Item No.36.02/Page No.279	Providing and applying white-wash in one coat on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.	8.00	Sqm
		Add 5% for Corporation Area	0.40	
			8.40	Sqm
8	PWD SSR 2020-21 Item No. 35.12/ Page No 276	A Providing and applying two coats of flat oil paint of approved colour and shade to internal / external plastered surfaces including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete	101.00	Sqm
		Add 5% for Corporation Area	5.05	
			106.05	Sqm
9	PWD SSR 2020-21 Item No. 6 D4d/ Page No 53	Painting with approved enamel paint in two coats including cleaning surface and lettering for Boundary Stonestone etc. complete.	43.00	CUM
		Add 5% for Corporation Area	2.15	
			45.15	CUM


 Range Forest Officer
 Pen

Demarcation Estimate

Range: Wadkhal

Division: Alibag

Estimate – INR 1,13,614.00

DETAIL ESTIMATE

FOREST DEPARTMENT



**Division - Alibag
Wadkhal - Range**

Erection of Boundary Demarcation Pillars

Nos. | 20

Name of Work:- Boundary Demarcation Pillars at Uran - Usar Pipeline, Tal. Pen.

Work Portion Amount Rs. 113614.00

SHEET

Division **Alibag**
Sanction Estimate :-
Fund Head :-
Major Head :-
Minor Head :-
Service Head :-
Departmental Head :-

Estimate framed in the office of the Range Forest Office, Wadkhal Range and the probable expenses that will incurred in the Erection of boundary demarcation pillar

Total Amount Rs. 113614.00

Administrative approved under No. Dated

Technically sanctioned under No. Dated

Estimate prepared by Shri

Estimate Checked by Shri

Call of Authority **D.F.O., Alibag**

General Description as per separate sheet attached


Range Forest Officer
Wadkhal (Protection)


(Rahul Patil, IFS)
Deputy Conservator of Forest,
Alibag Forest Division, Alibag

GENERAL REPORT

Name of Work:- Boundary Demarcation Pillars at Uran - Usar Pipeline, Tal. Pen.

No. of Boundary Pillars 20 **Nos.**

Total Amount Rs. 113614.00

Authority D.F.O., Alibag

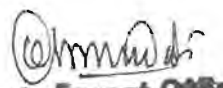
Necessity For Diversion of area for Uran - Usar Pipeline, Tal. Pen., Dist. Raigad in State of Maharashtra. The Boundary Demarcation Pillars needed to be constructed in boundary line for mangrove conservation and demarcation.

Provision Following provision are made in this Estimate.

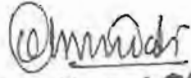
- 1 Clearing and grubbing road land including uprooting rank
- 2 Excavation for foundation in earth, soil of all types, sand, gravel and soft murum
- 3 Dewatering on BHP basis by using water pump of 3.0 BHP
- 4 Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling
- 5 Providing and laying Cast in situ/Ready Mix cement concrete in M-10 PCC
- 6 Providing and fixing 100 mm dia. Country teak wood ballies
- 7 Providing and applying coal tar in two coats on new wood work
- 8 Providing and laying concrete pipes of I.S.NP. class of 150mm dia
- 9 Providing and laying Cast in situ/Ready Mix cement concrete in M20
- 10 Providing and applying white-wash
- 11 Providing and applying two coats of flat oil paint
- 12 Painting with approved enamel paint in two coats

Rates Rates adopted in the Estimate are as per SSR 2022-23 w.e.f 15-08-2022.

Specification The work will be carried out as per standard specification of Public Work Department and as directed by Engineer-incharge from time to time


Range Forest Officer
Wadkarni (In-charge)
(Wadkarni)

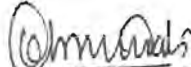
Mumbai Mangrove Conservation Unit		
Name of Work:- Boundary Demarcation Pillars at Uran - Usar Pipeline, Tal. Pen.		
RECAP SHEET		
* Sr. No.	Description	Amount
1	Total Cost of Boundary Demarcation Pillars	92745.76
	Add 18 % FOR @ G.S.T	16694.24
	Add 0.5% Insurance	463.73
	Add 4% Contingency	3709.83
	Total	113613.56
	SAY	1,13,614.00


Ranga Forest Officer
 (Forest Officer
 Ward (Protection)

Name of Work:- Boundary Demarcation Pillars at Uran - Usar Pipeline, Tal. Pen.

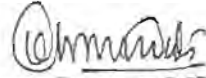
Measurement & Abstract.									
Item No	ITEM OF WORK	Unit	NO	L	B	D/H	QTY.	Rate	Amount
1	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means								
	P.W.D. S.S.R. 2022-23 Item No.21.02/Page No.189								
		Cu.m	20.00	0.70	0.70	1.13	11.07		
						Net Qty.	11.07	217.35	2406.06
2	Dewatering on BHP basis by using water pump including diversion of stream, providing cofferdams, earthen bunds etc as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using 3.0 BHP pump etc. complete. (prior approval of Superintending Engineer will be necessary)								
	P.W.D. S.S.R. 2022-23 Item No.12.22/Page No.104		Day	Hr					
	Pump	hours	20.00	1			20.00		
						Net Qty.	20.00	187.95	3759.00
3	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.								
	P.W.D. S.S.R. 2022-23 Item No.21.40/Page No.194								
	Soling 230mm thick	Cu.m	20.00	0.7	0.7	0.23	2.25		
						Net Qty.	2.250	2124.62	4780.40
4	A Providing and laying in situ / ready mix / ready mix M15 cement concrete of trap/ granite/ quartzite/ gneiss metal in oundation including necessary centering, formwork, bailing out water, compacting and curing etc. complete. (with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) with natural /artificial sand)								
	P.W.D. S.S.R. 2022-23 Item No.24.04/Page No.215								
	PCC	Cu.M	20.00	0.7	0.7	0.1	0.98		
						Net Qty.	0.980	7762.36	7607.12
5	Providing and laying concrete pipes of I.S.NP. class of 150mm diameter in proper line, level and slope Including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete								
	P.W.D. S.S.R. 2022-23 Item No.42.07/Page No.342								
	Boundary Pillar	Rmt	20	2			40.00		
						Net Qty.	40.00	556.50	22260.00
6	Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap / ranite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening themif special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The cement Mortar 1:3 plaster is considered for rendering uneven and oneycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.)								
	PWD SSR 2020-21 Item no.24.10 /page no.216								
	Foundation block Below G.L	Cu.M	20.00	0.6	0.6	0.8	5.76		
	Foundation Block Above G.L	Cu.M	20.00	0.45	0.45	0.2	0.91		
	Inside Pipe (pi x r x r)xL	Cu.M	20.00	0.0100		1.3	0.260		
	Duduction For Pipe	Cu.M	-20.00	0.020		1	-0.400		
						Net Qty.	6.43	7762.36	49912.00

Item No	ITEM OF WORK	Unit	NO	L	B	D/H	QTY.	Rate	Amount
7	Providing and applying white-wash in one coat on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.								
	P.W.D. S.S.R. 2022-23 Item No.36.02/ Page No.279								
	White wash for outer surface of pipe	Sq.M	20.00	0.47		1.00	9.42		
		Sq.M	20.00	0.02			0.35		
						Net Qty.	9.77	8.40	82.07
8	A Providing and applying two coats of flat oil paint of approved colour and shade to internal / external plastered surfaces including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete								
	PWD SSR 2020-21 Item No. 35.12/ Page No 276								
	oil paint on outer face of pipe	Sq.M		As per White Wash Qty			9.77		
						Net Qty.	9.77	106.05	1036.11
9	Painting with approved enamel paint in two coats including cleaning surface and lettering for Boundary Stonestone etc. complete.								
	PWD SSR 2020-21 Item No. 6.04d/ Page No 53								
		Nos.	20.00				20.00		
						Net Qty.	20.00	45.15	903.00
									92745.76


Range Forest Officer
 Range Forest Officer
 Workstation

Name of Work:- Boundary Demarcation Pillars at Uran - Usar Pipeline, Tal. Pen.

Lead Statement					
Sr.No	Material	Location of Quarry	Lead in KM	Rate	Unit
1	Metal 6mm to 40mm	Panvel	20 KM	488.73	Cu.M
2	Metal 40mm & Above	Panvel	20 KM	468.37	Cu.M
3	Sand	Panvel	20 KM	488.73	Cu.M
4	Stone / Rubble	Panvel	20 KM	597.92	Cu.M
5	Cement	Nearby Location	05 KM	164.99	MT
				8.25	Per Bag
6	Steel	Nearby Location	05 KM	164.99	MT
7	Murum, Building Rubish, Earth	Nearby Location	10 KM	330.77	Cu.M


Range Forest Officer
Wadhwa Division (Wadhwa Section)

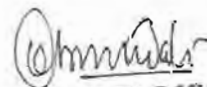
Division - Alibag, Range - Wadkhali

RATE ANALYSIS { PWD - SSR / 2022-23 }

Name of Work:- Boundary Demarcation Pillars at Uran - Usar Pipeline, Tal. Pen.

SR NO	Reference	ITEM	RATE IN RS.	UNIT
1	P.W.D. S.S.R. 2022-23 Item No.21.02/Page No.189	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	207.00	CUM
		Add 5% for Corporation Area	10.35	
			217.35	CUM
2	P.W.D. S.S.R. 2022-23 Item No.12.22/Page No.104	Dewatering on BHP basis by using water pump including diversion of stream, providing cofferdams, earthen bunds etc. as may be necessary for foundation and other parts of the the works and pumping out water during and after excavation as may be required by using 3.0 BHP pump etc. complete. (prior approval of Superintending Engineer will be necessary)	179.00	
		Add 5% for Corporation Area	8.95	
			187.95	BHP
3	P.W.D. S.S.R. 2022-23 Item No.21.40/Page No.194	Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.	1454.00	CUM
		Add 5% for Corporation Area	72.70	
		Add 20 km lead	597.92	
			2124.62	CUM
4	P.W.D. S.S.R. 2022-23 Item No.24.04/Page No.215	A Providing and laying in situ / ready mix / ready mix M15 cement concrete of trap/ granite/ quartzite/ gneiss metal in foundation including necessary centering, formwork, bailing out water, compacting and curing etc. complete. (with fully automatic micro processor based PLC with SCADA enabled with reversible drum type mixer/ concrete batch mix plant (pan mixer) with natural /artificial sand)	6359.00	
		Add 5% for Corporation Area	317.95	
		Add Lead for cement(6x8.25)	49.50	
		Add Lead for Sand (488.73x0.4)	195.49	
		Add lead for Metal(488.73x0.9)	439.86	
			7361.80	CUM
5	P.W.D. S.S.R. 2022-23 Item No.42.07/Page No.342	Providing and laying concrete pipes of I.S.NP. class of 150mm diameter in proper line, level and slope including necessary collars, excavation, laying, fixing with collars in cement mortar 1:1 and refilling the trench complete	530.00	RMT
		Add 5% for Corporation Area	26.50	
			556.50	RMT
6	PWD SSR 2020-21 Item no.24.10 /page no.216	Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap / granite/quartzite/gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The cement Mortar 1:3 plaster is considered for rendering uneven and oneycombed surface only. Newly laid concrete shall be covered	6721.00	CUM
		Add 5% for Corporation Area	336.05	
		Add Lead for cement(7x8.25)	57.75	

SR NO	Refrance	ITEM	RATE IN RS.	UNIT
		Add Lead for Sand (488.73x0.425)	207.71	
		Add lead for Metal(488.73x0.9)	439.86	
			7762.36	CUM
7	P.W.D. S.S.R. 2022-23 Item No.36.02/Page No.279	Providing and applying white-wash in one coat on old / new plastered or masonry surfaces and asbestos cement sheets including scaffolding and preparing the surface by brushing and brooming down etc. complete.	8.00	Sqm
		Add 5% for Corporation Area	0.40	
			8.40	Sqm
8	PWD SSR 2020-21 Item No. 35.12/ Page No 276	A Providing and applying two coats of flat oil paint of approved colour and shade to internal / external plastered surfaces including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete	101.00	Sqm
		Add 5% for Corporation Area	5.05	
			106.05	Sqm
9	PWD SSR 2020-21 Item No. 6.04d/ Page No 53	Painting with approved enamel paint in two coats including cleaning surface and lettering for Boundary Stonestone etc. complete.	43.00	CUM
		Add 5% for Corporation Area	2.15	
			45.15	CUM


Range Forest Officer
 Wadkarni (Protection)

Demarcation Estimate

Range: Alibag

Division: Alibag

Estimate – INR 18,54,444.00

DETAIL ESTIMATE

FOREST DEPARTMENT



**Division - Alibag
Alibag - Range**

Erection of Boundary Demarcation Pillars

Class I	82 Nos
Class II	80 Nos

Name of Work:- Boundary Demarcation Pillars at Uran - Usar Pipeline,

Village Shahapur, Shahbaj, Talashet, Dalvi Kharoshi, Bopoli, Beloshi, Kune, Tal.
Alibag.

Work Portion Amount Rs. = 18,54,444/-

FACE SHEET

Division	Allbag
Sanction Estimate	-
Fund Head	-
Major Head	-
Minor Head	-
Service Head	-
Departmental Head	-

Estimate framed in the office of the Range Forest Office, Allbag Range and the probable expenses that will incurred in the Erection of boundary demarcation pillar

Village of Shahapur, Shahbaj, Talashet, Dalvi Kharoshi, Bopoli, Beloshi, Kune, Taluka Allbag

Total Amount Rs. = 18,54,444/-

Administrative approved under No. Dated

Technically sanctioned under No. Dated

Estimate prepared by Shri

Estimate Checked by Shri

Coll of Authority **D.F.O., Allbag**

General Description as per separate sheet attached


**Range Forest Officer
Allbag**


**(Rahul Patil, IFS)
Deputy Conservator of Forest,
Allbag Forest Division, Allbag**

ESTIMATE

Division :- Alibag Forest Division
Range :- Alibag Forest Range

Name of Work :-

For Diversion of 3.9443 ha. Forest land under section-2 of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for Uran-Usar Propane laying 12" Dia liquidpropane along with OFC in Uran, Panvel, Pen & Alibag Taluka, Raigad District in the state of Maharashtra

Class-I Pillars 82 Nos
Class-II Pillars 80 Nos

Rs. = 18,54,444/-

GENERAL DESCRIPTION

SI No	Details :	Length	Area in Ha
1	Village - Shahapur, Survey No - Khadi	129.96	0.1300
2	Village - Shahapur, Survey No - Khadi	22.51	0.0225
3	Village - Shahapur, Survey No - Khadi	25.15	0.0252
4	Village - Shahapur, Survey No - Khadi	20.06	0.0201
5	Village - Shahaj, Survey No - Khadi	14.74	0.0147
6	Village - Shahaj, Survey No - 346	68.61	0.0686
7	Village - Talashet, Survey No - 42 (34)	66.46	0.0332
8	Village - Talashet, Survey No - 42 (34)	40.94	0.0205
9	Village - Talashet, Survey No - 64 (51)	16.33	0.0082
10	Village - Talashet, Survey No - 68 (58)	22.37	0.0112
11	Village - Dalvi Kharoshi, Survey No - 13	41.35	0.0207
12	Village - Bopoli, Survey No - 23	122.84	0.0614
13	Village - Bopoli, Survey No - 22	177.4	0.0887
14	Village - Bopoli, Survey No - 22	166.48	0.0832
15	Village - Bopoli, Survey No - 17	341.61	0.1708
16	Village - Bopoli, Survey No - 37	104.79	0.0524
17	Village - Dalvi Kharoshi, Survey No - 13	564.69	0.2823
18	Village - Beloshi, Survey No - 90, 110, 168	1046.23	0.5231
19	Village - Kune, Survey No - 98	656.74	0.3284
20	Village - Kune, Survey No - 152 (49/3)	31.46	0.0157
21	Village - Kune, Survey No - 158 (52)	88.55	0.0443
Total		3769.27	2.0252

Name of Work: -

For Diversion of 3.9443 ha. Forest land under section-2 of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for Uran-Usar Propane laying 12" Dia liquidpropane along with OFC in Uran, Panvel, Pen & Alibag Taluka, Raigad District in the state of Maharashtra

RECAPITULATION SHEET

SI No	Description	Amount (in Rs)
1	Estimated Civil Cost	14,69,992.26
2	Add G.S.T. @ 18 %	2,64,599.00
3	Add Contingencies @ 4 %	58,800.00
4	Add for Labour Insurance @ 1 %	14,700.00
5	Add for Estimate Charges	33,075.00
6	Add for Royalty Charges	5,862.55
7	Add for Material Checking charges	7,415.00
	Total Amount	18,54,444.00

Name of Work :-

For Diversion of 3.9443 ha. Forest land under section-2 of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for Uran-Usar Propane laying 12" Dia liquidpropane along with OFC in Uran, Panvel, Pen & Alibag Taluka, Raigad District in the state of Maharashtra

Forest Division - Alibag Forest Division

Forest Range - Alibag

ABSTRACT

Qty	Item of Work	Rate	Unit	Amount
32400.00	Item No. 1:- Removing Grass, Gazer Grass and disposing off out of building premises including making clean the ground by shovel and phavaras etc. complete.	6.60	Sqmt	2,13,840.00
45.1260	Item No. 2:- Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	227.70	Cum	10,275.19
22.56	Item No. 3 :- Providing soling using 80 mm size trap metal in 15 cm layer including filling voids with Crushed sand/grit, ramming, watering etc. complete.	2211.79	Cum	49,904.62
85.85	Item No. 4:- Providing and laying Cast In situ/Ready Mix cement concrete in M-10 of trap/ granite/quartzite/ gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing if required and curing complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	8425.92	Cum	7,23,391.35
541.92	Item No. 5:- Providing internal cement plaster 6 mm thick in a single coat in cement mortar 1:3 without neeru finish to concrete surface in all positions including scaffolding and curing etc. complete.	233.61	Sqmt	1,26,597.93
42.85	Item No. 6:- Providing and applying two coats of flat oil paint of approved colour and shade to internal / external plastered surfaces including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete.	111.10	Sqmt	4,760.52
5184.00	Item No. 7:- Painting letters upto 20 cm height complete brushes, coir brushers, dusting, cleaning, including cost of paint etc. complete	31.90	Nos	1,65,369.60
541.92	Item No. 8:- Providing and applying two coats of exterior weather shield paint of approved manufacture and of approved colour to the plastered surfaces including cleaning, preparing the plaster surface, applying primer coat, scaffolding if necessary, and watering the surface for two days etc complete.	324.50	Sqmt	1,75,853.04
Total				14,69,992.26

	Item No. 9:- Royalty Charges @ 0			-
4.12	1 Sand	237.37	Cum	977.63
22.60	2. Rubble	216.18	Cum	4,884.92
		Total		5,862.55
	Item No. 10:- Material Checking charges.			7,415.00

Name of Work: -

For Diversion of 3 9443 ha. Forest land under section-2 of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for Uran-Usar Propane laying 12" Dia liquidpropane along with OFC in Uran, Panvel, Pen & Alibag Taluka, Raigad District in the state of Maharashtra

Forest Division - Alibag Forest Division
Forest Rang - Alibag

MEASUREMENT SHEET

<u>Class-I Pillars</u>	<u>82</u>
<u>Class-II Pillars</u>	<u>80</u>

Item No. 1: - Removing grass, gazer grass and disposing off out of building premises including making clean the ground by shovel and phaveras etc. complete.

$$\text{Class-I Pillars} = 82 \times 100.00 \times 2.00 = 16,400.00 \text{ Sqmt}$$

$$\text{Class-II Pillars} = 80 \times 100.00 \times 2.00 = 16,000.00 \text{ Sqmt}$$

$$\text{Total} = 32,400.00 \text{ Sqmt}$$

Item No. 2: - Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed...

$$\text{Class-I Pillars} = 82 \times 1.10 \times 1.10 \times 0.30 = 29.77 \text{ Cum}$$

$$\text{Class-II Pillars} = 80 \times 0.80 \times 0.80 \times 0.30 = 15.36 \text{ Cum}$$

$$\text{Total} = 45.13 \text{ Cum}$$

Item No. 3: - Providing soling using 80 mm size trap metal in 15 cm. layer including filling voids with Crushed sand/grit, ramming, watering etc. complete..

$$\text{Class-I Pillars} = 82 \times 1.10 \times 1.10 \times 0.15 = 14.88 \text{ Cum}$$

$$\text{Class-II Pillars} = 80 \times 0.80 \times 0.80 \times 0.15 = 7.68 \text{ Cum}$$

$$\text{Total} = 22.56 \text{ Cum}$$

Item No. 4: - Providing and laying Cast in situ/Ready Mix cement concrete in M-10 of trap / granite / quartzite / gneiss metal for foundation and bedding including bailing out water, Steel centering, formwork, laying / pumping, compacting.....

$$\text{Volume of one Class-I Pillar (Ref. Drawing)} = 0.741 \text{ Cum}$$

$$\text{Volume of one Class-II Pillar (Ref. Drawing)} = 0.289 \text{ Cum}$$

$$\text{Class-I Pillars} = 82 \times 0.741 = 60.76 \text{ Cum}$$

$$\text{Class-I Pedestal at top} = 82 \times 0.23 \times 0.23 \times 0.23 = 1.00 \text{ Cum}$$

$$\text{Class-II Pillars} = 80 \times 0.289 = 23.12 \text{ Cum}$$

$$\text{Class-II Pedestal at top} = 80 \times 0.23 \times 0.23 \times 0.23 = 0.97 \text{ Cum}$$

$$\text{Total} = 85.85 \text{ Cum}$$

Name of Work: -

For Diversion of 3.9443 ha. Forest land under section-2 of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for Uran-Usar Propane laying 12" Dia liquidpropane along with OFC in Uran, Panvel, Pen & Alibag Taluka, Raigad District in the state of Maharashtra

Forest Division - Alibag Forest Division
Forest Rang - Alibag

MEASUREMENT SHEET

Item No. 5: - Providing internal cement plaster 6 mm thick in a single coat in cement mortar 1:3 without neeru finish to concrete surface in all positions including scaffolding and curing etc.....

$$\text{Class-I Pillars} = 82 \times 4.00 \times (0.90 + 0.60)/2 \times 1.30 = 319.80 \text{ Sqmt}$$

$$\text{Class-I Side Top \& Pedestal Top} = 82 \times 0.60 \times 0.60 = 29.52 \text{ Sqmt}$$

$$\text{Class-II Pillars} = 80 \times 4.00 \times (0.60 + 0.45)/2 \times 1.05 = 176.40 \text{ Sqmt}$$

$$\text{Class-II Side Top \& Pedestal Top} = 80 \times 0.45 \times 0.45 = 16.20 \text{ Sqmt}$$

$$\text{Total} = 541.92 \text{ Sqmt}$$

Item No. 6: - Providing and applying two coats of flat oil paint of approved colour and shade to internal / external plastered surfaces including scaffolding if necessary, cleaning and preparing the surface (excluding primer coat) etc....

$$\text{Class-I Pillars Sides} = 82 \times 4.00 \times (0.83 + 0.60)/2 \times 0.23 = 17.35 \text{ Sqmt}$$

$$\text{Class-I Pillars Pedestal block sides} = 82 \times 1 \times 0.23 \times 0.23 = 4.34 \text{ Sqmt}$$

$$\text{Class-II Pillars Sides} = 80 \times 4.00 \times (0.60 + 0.45)/2 \times 0.23 = 16.93 \text{ Sqmt}$$

$$\text{Class-II Pillars Pedestal block sides} = 80 \times 1 \times 0.23 \times 0.23 = 4.23 \text{ Sqmt}$$

$$\text{Total} = 42.85 \text{ Sqmt}$$

Item No. 7: - Painting letters upto 20 cm height complete brushes, coir brushers, dusting, cleaning, including cost of paint etc. complete.....

$$\text{Class-I Pillars} = 82 \times 4 \times 8 = 2,624 \text{ Nos}$$

$$\text{Class-II Pillars} = 80 \times 4 \times 8 = 2,560 \text{ Nos}$$

$$\text{Total} = 5,184.00 \text{ Nos}$$

Item No. 8: - Providing and applying two coats of exterior weather shield paint of approved manufacture and of approved colour to the plastered surfaces including cleaning, preparing the plaster surface, applying primer coat...

$$\text{Qty. same as Item No. 5} = 541.92 \text{ Sqmt}$$

Name of Work: -

For Diversion of 3.9443 ha. Forest land under section-2 of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for Uran-Usar Propane laying 12" Dia liquidpropane along with OFC in Uran, Panvel, Pen & Alibag Taluka, Raigad District in the state of Maharashtra

Forest Division - Alibag Forest Division
Forest Rang - Alibag

MEASUREMENT SHEET

Item No. 9: - Royalty charges.

1. Rubble - $85.85 \times 0.2632 = 22.597 \text{ Cum}$
 2. Sand in Plaster - $541.92 \times 0.0076 = 4.12 \text{ Cum}$
- Total = 26.72 Cum

Item No. 10: - Material checking charges.. @7415

Name of Work:-

For Division of 3.9443 ha. Forest land under section-2 of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 for Uran-Usar Propane laying 12' Dia liquidpropane along with OFC in Uran, Panvel, Pen & Alibag Taluka, Raigad District in the state of Maharashtra

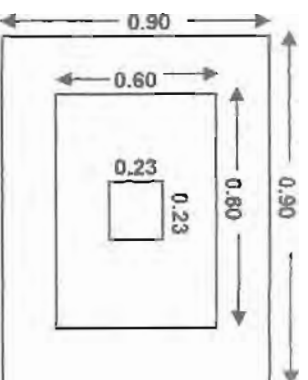
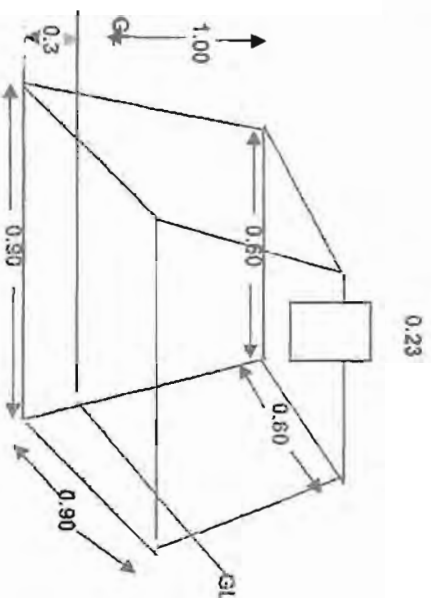
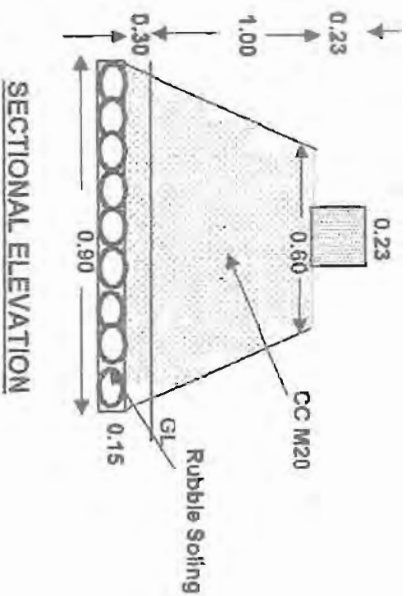
**Forest Division - Alibag Forest Division
Forest Rang - Alibag**

Rate Analysis

R. No	Item	SSR	Page	Item No	Basic Rate	Unit	Add 10% Inaccessible	Lead Charges as per statement				Total Lead Cheages	Total 6+8+14
								Material	Required	Lead Charge	Unit	Amount	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Removing Grass, Gazer Grass	PWD 2022-23	157	21.34	6	Sqm	0.6						6.60
2	Excavation for foundation in earth, soil of all type	PWD 2022-23	153	21.02	207	Cmt	20.7						227.70
3	Rubble Stone Soiling	PWD 2022-23	157	21.38	1382	Cmt	138.2	Rubble	1	597.92	cmt	597.92	2211.79
								Quarry Spout	0.2	597.92	cmt	93.67	0.00
4	RCC Foundation in M-20	PWD 2022-23	178	25.11	7104	cmt	710.4	Sand	0.425	488.73	cmt	207.71	8425.92
								Metal 20mm	0.57	468.37	cmt	266.97	0.00
								Metal 10mm	0.28	488.73	cmt	136.84	0.00
5	Cement Plaster 6mm thick	PWD 2022-23	209	32.02	209	Sqm	20.9	Sand	0.0076	488.73	cmt	3.71	233.61
6	Providing and applying and two coats of floor oil paint	PWD 2022-23	224	35.12	101	Sqm	10.1						111.10
7	Painting letters upto 20 cm height	PWD 2022-23	46	6.05	29	No	2.9						31.90
8	Providing and applying and two coats of exterior weather shield paint	PWD 2022-23	225	35.26	295	Sqm	29.5						324.50

Construction of Class - I Permanent Boundary Pillars for Forest Area

Class - I



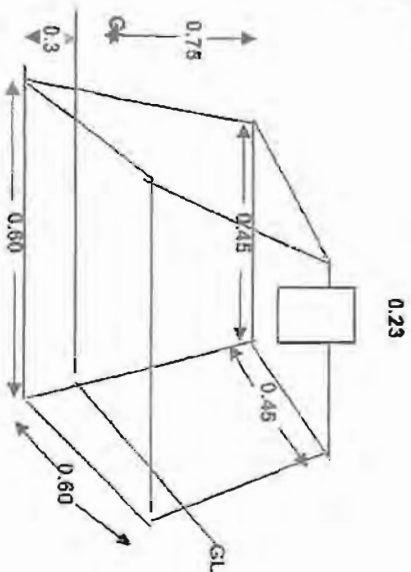
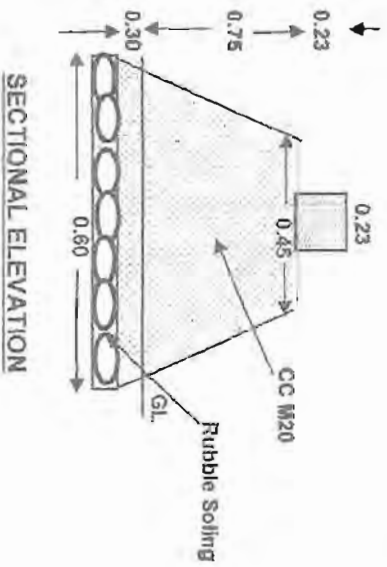
PLAN

DATAS:
A1 (Top Area)
A2 (Bottom Area)
H Total Height
H1 Below GL
H2 Above GL
Volume

= 0.60×0.60	= 0.36	Sqm
= 0.90×0.90	= 0.81	Sqm
= 1.30 M		
= 0.30 M		
= 1.00 M		
= $H/3 \times (A1 + A2 + \sqrt{A1A2})$		
= $1.30/3 \times (0.36 + 0.81 + \sqrt{0.36 \times 0.81})$		
= 0.741 Cum		

Construction of Class - II Permanent Boundary Pillars for Forest Area

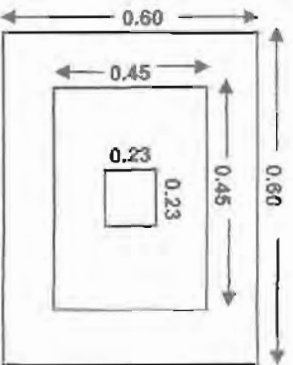
Class - II



ISOMETRIC ELEVATION

DATA:
A1 (Top Area)
A2 (Bottom Area)
H Total Height
H1 Below GL
H2 Above GL
Volume

$= 0.45 \times 0.45$	$= 0.20$	Sqm
$= 0.60 \times 0.60$	$= 0.36$	Sqm
$= 1.05 \text{ M}$		
$= 0.30 \text{ M}$		
$= 0.75 \text{ M}$		
$= H/3 \times (A1 + A2 + \sqrt{A1A2})$		
$= 1.05/3 \times (0.20 + 0.36 + \sqrt{0.20 \times 0.36})$		
$= 0.289 \text{ Cum}$		



PLAN

Compensatory Afforestation

Range: Panvel

Division: Alibag

Estimate – INR 62,61,061.00

ALIBAG FOREST DIVISION

RATE STRUCTURE FOR COMPENSTORY AFFORESTATION ON WORKS IN ZONE II & III HEAVY RAIN FALL AREA (1100 PLANTS/Ha.)

DAILY WAGES RATE incriseing 10% per year

Area :-

8.000 Hector

Abstact

Sr. No.	Partifulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
1)	PPO + PYO	168.07	86536	193278	299401	740747	1622363	2363110
2)	First Year Operation	133.41	72203	7175	84934	618059	61415	679474
3)	Second Year Operation	73.48	45989	1635	50958	393668	13996	407665
4)	Third Year Operation	55.17	37808	911	41430	323639	7798	331437
5)	Fourth Year Operation	40.50	30530	0	32667	261340	0	261340
6)	Fith Year Operation	40.50	33583	0	35934	287474	0	287474
7)	Sixth Year Operation	40.50	36942	0	39528	316221	0	316221
8)	Seventh Year Operation	40.50	40636	0	43480	347843	0	347843
9)	Eighth Year Operation	40.50	44699	0	47828	382628	0	382628
10)	Nineth Year Operation	40.50	49169	0	52611	420890	0	420890
11)	Tenth Year Operation	40.50	54086	0	57872	462979	0	462979
	Total :-	713.63	532183	202999	786645	4555489	1705572	6261061

सहायक वनसंरक्षक
प्रदेशिक, अल्बोर्ग
पुणे


Range Forest Officer
(P. 10/10)


(Rahul Patil, IFS)
Deputy Conservator of Forest,
Alibag Forest Division, Alibag

Model Rate Structure for Compensatory Afforestation Model No.4

Model rate structure for plantation of mixed tree species in areas with rainfall 800 mm and medium quality, medium drained soil

Spacing - 3m x 3m

Division Alibag

Range Panvel

Size of Plts - 0.45 x 0.45 x 0.45 M

Plantation Site Ambli Valli curve no.45

No. of Seedlings - 1111 per ha.

Round Vajapur

Beet Nere

DAILY WAGES RATE 514.88

Area :- 8.00 Hectar

Sr. No.	Particulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
P.P.O + P.Y.O.WORKS								
1	(a) Survey & Demarcation	1.00	514.88	91.00	605.88	4119.04	728.00	4847.04
	(b) Preparation of treatment map (100 m x 50 m grid)	1.00	514.88	91.00	605.88	4119.04	728.00	4847.04
	(c) Digging trial pits of size 0.30X0.30X0.60 in corner of Grid.	0.40	205.95	0.00	205.95	1647.62	0.00	1647.62
	(d) Fixing 60 cm X0.05cmx0.12cm cement pillars upto 30cm deep in corner of Grid, painting with grid No. etc complete (3 pillars, Rs. 75/- for each pillars)	0.00	0.00	225.00	225.00	0.00	1800.00	1800.00
	(e) Clearing of bushes and preparation of site (As per requirement)	10.00	5148.80	91.00	5239.80	41150.40	728.00	41878.40
2	Soil and moisture Conservation work - Including collection of rubbles from areas upto 30 m etc.	31.00	15961.28	0.00	15961.28	127690.24	0.00	127690.24
3	Providing and fixing chain link fencing 102 Rmt. Pre Ha. (with one gate+two wickets gates for on site) (Rs. 1494 per Rmt of basic rate +20% for transportation of ave. lead plus 20% for transportation tribal/remote area (by tender process) (Rs. 1494+149+149=1792/- pre Rmt (1.60 Rmt height with G.I. Chain link size 50mmx50mm 8 gauge thick and fixed 75 mm above ground level complete as per SSR item No. 1744 for 2017-18) Total Fencing 3600Rmt.	0.00	0.00	182855.80	182855.80	0.00	1462924.80	1462924.80

4	Alignment of pits at 3.0m x 3.0m spacemnt. 1111pits per ha) 100 pits 0.26 M.D. M&S 8 18 per 100 pits	2.89	1486.00	91.00	1579.00	11804.03	728.00	12632.03
5	Digging of pits of size 0.45x0.45x0.45m 1111 pits per ha. 6.60 M.D. per 100 pits	73.33	37756.15	0.00	37756.15	302049.20	0.00	302049.20
6	Construction of 5.00 Rmt wide inspection Path I.M.D. per 10 Rmt.	1.00	514.88	0.00	514.88	4119.04	0.00	4119.04
7	Enumeration of all valuable plant species at plantation site and grid wise counting and providing colour band and recording the same in Register (0.75 M.D.) per 100 plants.	0.75	386.16	25.00	411.16	3089.28	200.00	3289.28
8	Providing and fixing (4 feet x3feet) information board each per site)	0.00	0.00	5000.00	5000.00	0.00	10000.00	10000.00
9	Part Nursery cost for raising of 1333 seedlings per ha. (including 20% casualty replacement) in polybag of size12.50cmx25.00cm (Wage Rs.11.90 +M.S. Rs. 3.62 per plant)	46.70	24044.90	4798.80	28843.70	192359.17	38390.40	230749.57
TOTAL :-		168.97	86535.88	193278.40	279814.28	692287.05	1516227.20	2208514.25
Contingency 3%					8394.43	20768.61	45496.82	66255.43
Labour welfare 4%					11192.57	27691.48	60649.09	88340.57
TOTAL :-			86535.88	193278.40	299401.28	740747.15	1622363.10	2363110.25
SAY AS TOTAL :-					299401			2363110

सहायक
प्रदेशिक व वन्यजीव
पुनर्वसन

राज्य वन्यजीव
पुनर्वसन

DAILY WAGES RATE 566.37

Sr. No.	Particulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
First Year Operation								
1	Part nursery cost for maintenance of 1333 seedlings per ha. Rs. 2.64 per seedling (Wages Rs. 2.69 M & S Rs. 0.81)	14.80	5026.23	1079.73	6105.96	40209.84	8637.84	48847.68
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MD per 100 pits)	18.44	10443.83	1944.25	12388.08	83550.61	15554.00	99104.61
3	Transportation of 1333 seedlings from nursery to planting site including loading & unloading Rs. 0.4 M.D. per 100 plant and M.S. Rs. 1.82 per seedling	1.87	1059.11	2426.00	3485.11	8472.87	19408.00	27880.87
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedling)	11.11	6292.35	0.00	6292.35	50338.79	0.00	50338.79
5	3 seedlings (1 Rmt circular) and 2 soil working (4.00 M.D. per 100 seedlings) fertilizer application Rs. 0.82 per seedling	44.44	25169.39	911.02	26080.41	201355.15	7288.16	208643.31
6	Casualty replacement (20X 222 seedlings per ha.) (2 M.D. per 100 seedlings)	4.44	2514.67	0.00	2514.67	20117.39	0.00	20117.39
7	Part nursery cost for casualty replacement in SYO (222 seedlings per ha.) (wages Rs. 11.90 and material supply Rs. 3.62 total Rs. 12.55 per seedling)	7.78	4406.34	803.64	5209.98	35250.74	6429.12	41679.86
8	Watch and ward (9 months-1 watcher.)	27.38	15507.16	0.00	15507.16	124057.25	0.00	124057.25
9	Soil working for naturally grower plants and singling (1.15 M.D. per 100 plants)	1.15	651.32	10.00	661.32	5210.59	80.00	5290.59
10	Fire tracing	2.00	1132.74	0.00	1132.74	9061.89	0.00	9061.89
	TOTAL :-	133.41	72203.14	7174.64	79377.78	577625.11	57397.12	635022.23
	Contingancy 3%				2381.33	17328.75	1721.91	19050.67
	Labour welfare 4%				3175.11	23105.00	2295.88	25400.89
	Grand TOTAL :-		72203.14	7174.64	84934.22	618058.87	61414.92	679473.78
	SAY AS TOTAL :-				84934			679474

सहायक
प्रदेशीय
पंचायत

(Signature)
Rajendra Kumar Choudhary
Jammu

DAILY WAGES RATE 623.00

Sr. No.	Partifulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
Second Year Operation								
1	Part Nursery cost for seedlings for casualty replacement (222 seedlings per ha.) labour rate @ 3.77 and M.S. 1.82 per seedling	2.46	1532.59	404.04	1936.63	12260.73	3232.32	15493.05
2	Transportation of 222 seedlings for casualty replacement from Nursery to plantation site (including loading and unloading) wages 0.14 M.D. per 100 seedling & M.S. Rs. 1.82 per seedlings.	0.31	404.04	320.00	724.04	3232.32	2500.00	5792.32
3	Planting for casualty replacement 222 seedlings (2 M.D. per 100 seedling)	4.44	2766.14	0.00	2766.14	22129.13	0.00	22129.13
4	2 weeding and 1 soil working, with fertilizer applicaton 2.5 M.D. per 100 seedlings at M.S.Rs. 0.82 per seedling	27.77	17300.84	911.02	18211.86	138406.75	7288.16	145694.91
5	Watch and ward 12 months-1 full time watcher for plantaion,	36.50	22739.68	0.00	22739.68	181917.40	0.00	181917.40
6	Fire tracing	2.00	1246.01	0.00	1246.01	9968.08	0.00	9968.08
TOTAL :-		73.48	45989.30	1635.06	47624.36	367914.41	13080.48	380994.89
	Contingancy 3%				1428.73	11037.43	392.41	11429.85
	Labour welfare (Medi &water) 4%				1904.97	14716.58	523.22	15239.80
TOTAL :-			45989.30	1635.06	50958.07	393668.42	13996.11	407664.53
SAY AS TOTAL :-					50958			407665

महासंचालक
प्रादेशिक व जल
संचालन

Range Forest Officer
Range

DAILY WAGES RATE 685.31

Sr. No.	Partifulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
Third Year Operation								
1	1 Weeding and 1 soil working (1.50 M.D. per 100 seedling) applying fertilizer @ Rs. 0.82 per plant.	16.67	11424.04	911.02	12335.06	91392.31	7288.16	98680.47
2	Watch and ward 12 months-1 full time watcher for plantaion,	36.50	25013.64	0.00	25013.64	200109.14	0.00	200109.14
3	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	1370.61	0.00	1370.61	10964.88	0.00	10964.88
	TOTAL :-	55.17	37808.29	911.02	38719.31	302466.34	7288.16	309754.50
	Contingancy 3%				1161.58	9073.99	218.64	9292.63
	Labour welfare 4%				1548.77	12098.65	291.53	12390.18
	TOTAL :-		37808.29	911.02	41429.66	323638.98	7798.33	331437.31
	SAY AS TOTAL :-				41430			331437

DAILY WAGES RATE 753.84

Sr.	Partifulars of works	Mandays	Wages	Material	Total	Wages	Material	Total
Fourth Year Operation								
1	Watch and ward 12 months-1 full time watcher for plantaion,	36.50	27515.01	0.00	27515.01	220120.06	0.00	220120.06
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	1507.67	0.00	1507.67	12061.37	0.00	12061.37
3	Fire tracing	2.00	1507.67	0.00	1507.67	12061.37	0.00	12061.37
	TOTAL :-	40.50	30530.35	0.00	30530.35	244242.80	0.00	244242.80
	Contingancy 3%				915.91	7327.28	0.00	7327.28
	Labour welfare 4%				1221.21	9769.71	0.00	9769.71
	TOTAL :-		30530.35	0.00	32667.47	261339.80	0.00	261339.80
	SAY AS TOTAL :-				32667			261340

सहायक निरीक्षक
पर्यावरण व वन्यजीव
बनबेल

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DAILY WAGES RATE 829.22

Sr. No.	Partifulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
Fifth Year Operation								
1	Watch and ward 12 months-1 full time watcher for plantaion,	36.50	30266.51	0.00	30266.51	242132.06	0.00	242132.06
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	1658.44	0.00	1658.44	13267.51	0.00	13267.51
3	Fire tracing	2.00	1658.44	0.00	1658.44	13267.51	0.00	13267.51
	TOTAL :-	40.50	33583.39	0.00	33583.39	268667.08	0.00	268667.08
	Contingancy 3%				1007.50	8060.01	0.00	8060.01
	Labour welfare (Medi &water) 4%				1343.34	10746.68	0.00	10746.68
	TOTAL :-		33583.39	0.00	35934.22	287473.78	0.00	287473.78
	SAY AS TOTAL :-				35934			287474

DAILY WAGES RATE 912.14

Sr. No.	Partifulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
Sixth Year Operation								
1	Watch and ward 12 months-1 full time watcher for plantaion,	36.50	33293.16	0.00	33293.16	266345.27	0.00	266345.27
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	1824.28	0.00	1824.28	14594.26	0.00	14594.26
3	Fire tracing	2.00	1824.28	0.00	1824.28	14594.26	0.00	14594.26
	TOTAL :-	40.50	36941.72	0.00	36941.72	295533.79	0.00	295533.79
	Contingancy 3%				1108.25	8866.01	0.00	8866.01
	Labour welfare (Medi &water) 4%				1477.67	11821.35	0.00	11821.35
	TOTAL :-		36941.72	0.00	39527.64	316221.16	0.00	316221.16
	SAY AS TOTAL :-				39528			316221

महाप्रकल्प निगरांक
प्रादेशिक व वन्यजीव
परिचाल

प्रमाणित
२०१८

DAILY WAGES RATE 1003.36

Sr. No.	Partifulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
Seventh Year Oparation								
1	Watch and ward 12 months-1 full time watcher for plantaion,	36.50	36622.47	0.00	36622.47	292979.79	0.00	292979.79
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	2006.71	0.00	2006.71	16053.69	0.00	16053.69
3	Fire tracing	2.00	2006.71	0.00	2006.71	16053.69	0.00	16053.69
	TOTAL :-	40.50	40635.90	0.00	40635.90	325087.17	0.00	325087.17
	Contingancy 3%				1219.08	9752.62	0.00	9752.62
	Labour welfare (Medi &water) 4%				1625.44	13003.49	0.00	13003.49
	TOTAL :-		40635.90	0.00	43480.41	347843.27	0.00	347843.27
	SAY AS TOTAL :-				43480			347843

DAILY WAGES RATE 1103.69

Sr. No.	Partifulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
Eighth Year Oparation								
1	Watch and ward 12 months-1 full time watcher for plantaion,	36.50	40284.72	0.00	40284.72	322277.77	0.00	322277.77
2		2.00	2207.38	0.00	2207.38	17659.06	0.00	17659.06
3	Fire tracing	2.00	2207.38	0.00	2207.38	17659.06	0.00	17659.06
	TOTAL :-	40.50	44699.49	0.00	44699.49	357595.89	0.00	357595.89
	Contingancy 3%				1340.98	10727.88	0.00	10727.88
	Labour welfare (Medi &water) 4%				1787.98	14303.84	0.00	14303.84
	TOTAL :-		44699.49	0.00	47828.45	382627.60	0.00	382627.60
	SAY AS TOTAL :-				47828			382628

सहायक निरीक्षक
प्रदेशिक, चण्डीगढ़
पुणे


Range Forest Officer
Pune

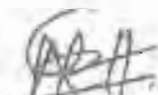
DAILY WAGES RATE 1214.06

Sr. No.	Partifulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
Nineth Year Operation								
1	Watch and ward 12 months-1 full time watcher for plantaion,	36.50	44313.19	0.00	44313.19	354505.55	0.00	354505.55
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	2428.12	0.00	2428.12	19424.96	0.00	19424.96
3	Fire tracing	2.00	2428.12	0.00	2428.12	19424.96	0.00	19424.96
	TOTAL :-	40.50	49169.43	0.00	49169.43	393355.47	0.00	393355.47
	Contingancy 3%				1475.08	11800.66	0.00	11800.66
	Labour welfare (Medi &water) 4%				1966.78	15734.22	0.00	15734.22
	TOTAL :-		49169.43	0.00	52611.29	420890.36	0.00	420890.36
	SAY AS TOTAL :-				52611			420890

DAILY WAGES RATE 1335.47

Sr. No.	Partifulars of works	Mandays	Wages	Material supply	Total	Wages	Material supply	Total
Tenth Year Operation								
1	Watch and ward 12 months-1 full time watcher for plantaion,	36.50	48744.51	0.00	48744.51	389956.11	0.00	389956.11
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	2670.93	0.00	2670.93	21367.46	0.00	21367.46
3	Fire tracing	2.00	2670.93	0.00	2670.93	21367.46	0.00	21367.46
	TOTAL :-	40.50	54086.38	0.00	54086.38	432691.02	0.00	432691.02
	Contingancy 3%				1622.59	12980.73	0.00	12980.73
	Labour welfare (Medi &water) 4%				2163.46	17307.64	0.00	17307.64
	TOTAL :-		54086.38	0.00	57872.42	462979.39	0.00	462979.39
	SAY AS TOTAL :-				57872			462979

सहायक अभियंता
प्रदेशीय
पुनर्वसन


Assistant Engineer
Punjab

Net Present Value

Division: Alibag

Estimate – INR 44,05,389.00

CERTIFICATE**ACCOMPANIMENT TO CERTIFICATE NO. -----
FOR NET PRESENT VALUE.**

Statement showing the Net Present Value of forest land in area of 3.9443 Ha. from Alibag Forest Division in the project for Uran-Usar Propane Pipeline laying 12" dia Liquid Propane Pipeline along with OFC in Uran, Panvel, Pen & Alibag Taluka, Raigad district, Maharashtra State.

The Calculation of Net Present Value is done in accordance with the judgment given on 28/3/2008 by the Hon'ble Supreme Court of India in Writ Petition No. (Civil) 202 of 1995.

Sr. No.	Village	Taluka	Forest Area (Ha.)	Eco class Type of Forest	Density of vegetation	Rate Per Hecter in Rs.	Total amount in Rs.
1	Navghar	Uran	0.1834	Class II	0.3	1116900	204839
2			0.2889	Class I	0.1	1116900	322672
3	Ghasakhoshi		0.2645	Class II	0.3	1116900	295420
4			0.0015	Class II	0.3	1116900	1675
5	kachareada		0.095	Class II	0.3	1116900	106106
6			0.0241	Class I	0.1	1116900	26917
7	Kalmbusare		0.0321	Class I	0.1	1116900	35852
8	Dighati	Panvel	0.0063	Class II	0.3	1116900	7036
9			0.0573	Class I	0.1	1116900	63998
10	Sai		0.0228	Class II	0.3	1116900	25465
11	Rave	Pen	0.0288	Class II	0.3	1116900	32167
12	Koper		0.0521	Class II	0.3	1116900	58190
13	Khardutafa Borli		0.0367	Class II	0.3	1116900	40990
14	Odhang		0.5053	Class II	0.3	1116900	564370
15	Vashi		0.0062	Class II	0.3	1116900	6925
16	Kane		0.0392	Class II	0.3	1116900	43782
17	Borje		0.0502	Class II	0.3	1116900	56068
18	Vashi		0.0237	Class II	0.3	1116900	26471
19			0.0764	Class II	0.3	1116900	85331
20	Beneghat		0.1247	Class II	0.3	1116900	139277
21	Shapur	Alibag	0.1977	Class II	0.3	1116900	220811
22			0.0147	Class II	0.3	1116900	16418
23	Shahbaj		0.0686	Class II	0.3	1116900	76619
24			0.0649	Class I	0.1	1116900	72487
25	Talasheth		0.0082	Class I	0.1	1116900	9159
26	Dalvi Kharoshi		0.3030	Class I	0.1	1116900	338421
27			0.0524	Class I	0.1	1116900	58526
28	Bopoli		0.2333	Class I	0.1	1116900	260573

29			0.1708	Class I	0.1	1116900	190767
30	Beloshi		0.5231	Class I	0.1	1116900	584250
31	Kune	Alibag	0.3284	Class I	0.1	1116900	366790
32			0.0600	Class I	0.1	1116900	67014
Total			3.9443				44,05,389
Total of NPV = Rs.44,05,389/- (Rs. Forty Four Lakh Five Thousand Three Hundred Eighty Nine only.)							

Date : /06/2023.

Place : Alibag

Deputy Conservator of Forests,
Alibag.

Sl No	Range	Cost of Felling of Trees
1	Panvel Range	47,410.00
2	Uran Range	15,15,108.00
3	Pen Range	56,908.00
4	Wadkhal Range	3,46,675.00
5	Alibag Range	29,21,689.00
	Total	48,87,790.00

Tree felling Abstract

In project proposal of Diversion of 3.9443 Ha Forest Land for Uran-Usar Propane Pipeline laying 12" dia Liquid Propane Pipeline along with OFC in Uran, Panvel, Pen & Alibag Taluka, Raigad district in Maharashtra state.

Girth of trees	Alibag Forest Division					Total trees need to be felled
	Uran Range	Panvel range	Pen Range	Wadkhal Range	Alibag Range	
below 30 cm	1003	0	8	22	1199	2232
31cm to 45cm	10593	26	44	39	618	11320
46cm to 60cm	834	32	4	4	260	1134
61cm to 75cm	0	12	1	0	157	170
76cm to 90cm	1	10	0	0	98	109
91cm to 105cm	0	0	0	0	28	28
106cm to 120cm	0	3	0	0	11	14
121cm to 120cm	0	10	0	0	2	12
151cm to 300cm	0	7	0	0	5	12
181cm to 200cm	0	0	0	0	2	2
201cm to 250 cm	0	0	0	0	0	0
251cm to 300cm	0	0	0	0	1	1
301cm and above	0	0	0	0	0	0
Total	12431	100	57	65	2381	15034


 (ASHISH THAKARE) (S)
 Deputy Conservator of Forests,
 Alibag

Tree Cutting Estimate

Range: Panvel

Division: Alibag

Estimate – INR 47,410.00

Development of Uran to Usar Gas Pipeline in the State of Maharashtra.

Circle : Thane Forest Circle
 Division : Alibag Forest Division
 Range : Panvel
 Village : Sai, Dighati

Item No.	Particulars	Unit	Quality	Rate (per hundred)	Amount
1	Clearing the site & Removing the bushes				10000
2	Felling of trees				
	30 cm below	Nos.	0	342	0
	31 cm to 45 cm	Nos.	26	530	137.8
	46 cm to 60 cm	Nos.	32	1353	432.96
	61 cm to 75 cm	Nos.	12	2028	243.36
	75 cm to 90 cm	Nos.	10	2699	269.9
	91 cm to 105 cm	Nos.	0	3091	0
	106 cm to 120 cm	Nos.	3	3833	114.99
	121 cm to 150 cm	Nos.	10	7204	720.4
	Above 150 cm	Nos.	7	8188.5	573.20
	Total		100		2492.605
3	Preparation of timber				
	A) Fashioning of timber preparation per Cmt.	Cum.	0	316	0
	Total				0
4	A) Measurement of timber logs per Cmt.	Cum.	0	76	0
	B) Numbering of logs per hundred.	Cum.	0	197	0
	Total				0
5	Preparation of Firewood	Cum.	10.619	131	1391
	A) Stacking 1 Cmt. Of firewood near 50 Mts. Permits	Cum.	10.619	85	903
	B) Dragging of Firewood for transportation	Cum.	10.619	85	903
6	Dragging of Timber	Cum.	0		
7	Salary of Mukadam (6 person for 3 month)	Nos.		11671 (Per person per month)	11671
8	Depot Expenditure				
	A) Making Stacks of Timber				
	B) Numbering by Nails per hundred				
	C) Species wise & Measurement wise Distribution of Fuel wood	Cum.	10.619	85	903
9	A) Timber Measurement	Cum.			
10	Transportation				
	A) Dragging path			Lumpsum	15000
	B) Transport by bullock cart distance. 0 to 2.00 Km.				
11	C) Transport firewood by Truck from Site to Sajgaon Depot. (more than 40 Km)	Cum.	10.619	178	1890
	Total			Total	45153
				5 %	2,257.6
				Contingencies	
				Total	47410.36
				Say	47410

Date :

Place : Panvel

Assistant Conservator of Forest, Panvel

Range Forest Officer, Panvel

(ASHISH THAKARE IFS)
 Deputy Conservator of Forests
 Alibag.

Development of Uran to Usar Gas Pipeline in the State of Maharashtra

Species	No. of trees per girth class										Total
	Below 30	31 - 45	46 - 60	61 - 75	76 - 90	91 - 105	106 - 120	121 - 135	136 - 150	Above 150	
Mahgo	0	0	0	0	0	0	0	0	0	0	0
Form factor per cmt.	0.005	0.015	0.03	0.066	0.122	0.176	0.226	0.274	0.318	0.345	
Total cmt.	0	0	0	0	0	0	0	0	0	0	0

Species	No. of trees per girth class										Total
	Below 30	31 - 45	46 - 60	61 - 75	76 - 90	91 - 105	106 - 120	121 - 135	136 - 150	Above 150	
Jambhul	0		1				1		1		3
Form factor per cmt.	0.005	0.015	0.03	0.066	0.122	0.176	0.226	0.274	0.318	0.345	
Total cmt.	0	0	0.03	0	0	0	0.226	0	0.318	0	0.574

Species	No. of trees per girth class										Total
	Below 30	31 - 45	46 - 60	61 - 75	76 - 90	91 - 105	106 - 120	121 - 135	136 - 150	Above 150	
Bamboo	0	0	0	0	0	0	0	0	0	0	0
Form factor per cmt.	0.005	0.015	0.03	0.066	0.122	0.176	0.226	0.274	0.318	0.345	
Total cmt.	0	0	0	0	0	0	0	0	0	0	0

Species	No. of trees per girth class										Total
	Below 30	31 - 45	46 - 60	61 - 75	76 - 90	91 - 105	106 - 120	121 - 135	136 - 150	Above 150	
Moh	0	0	0	0	0	0	0	0	0	0	0
Form factor per cmt.	0.005	0.015	0.03	0.066	0.122	0.176	0.226	0.274	0.318	0.345	
Total cmt.	0	0	0	0	0	0	0	0	0	0	0

Species	No. of trees per girth class										Total
	Below 30	31 - 45	46 - 60	61 - 75	76 - 90	91 - 105	106 - 120	121 - 135	136 - 150	Above 150	
Hed, Shivan, Mangrove		6	17	12	8		2	6	3	7	61
Form factor per cmt.	0.005	0.025	0.044	0.097	0.146	0.198	0.245	0.295	0.344	0.365	
Total cmt.	0	0.15	0.748	1.164	1.168	0	0.49	1.77	1.032	2.555	9.077

Species	No. of trees per girth class										Total
	Below 30	31 - 45	46 - 60	61 - 75	76 - 90	91 - 105	106 - 120	121 - 135	136 - 150	Above 150	
Injayli		18	8								26
Form factor per cmt.	0.005	0.015	0.03	0.066	0.122	0.176	0.226	0.274	0.318	0.345	
Total cmt.	0	0.27	0.24	0	0	0	0	0	0	0	0.51

Species	No. of trees per girth class										Total
	Below 30	31 - 45	46 - 60	61 - 75	76 - 90	91 - 105	106 - 120	121 - 135	136 - 150	Above 150	
Khair		2	6		2						10
Form factor per cmt.	0.005	0.01	0.015	0.094	0.174	0.25	0.326	0.401	0.476	0.52	
Total cmt.	0	0.02	0.09	0	0.348	0	0	0	0	0	0.458

Total cmt.		
Sr. No.	Species	cmt
1	Hed, Shivan, Mangrove	9.077
2	Khair	0.458
3	Mango	0
4	Moh	0
5	Jambhul	0.574
6	Bamboo	0
7	Injayli	0.51
Total cmt.		10.619

Assistant Conservator of Forest, Parivel

Range Forest Officer, Parivel

(ASHISH THAKARE IFS)
Deputy Conservator of Forests
Aihag

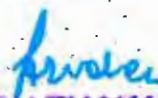
Form B - Abstract

Village Name : Sai, Dighati

Tree Name	Below 30cm	31cm - 45cm	46cm to 60cm	61cm - 75cm	76cm - 90cm	91cm - 105cm	106cm - 120cm	121cm - 135cm	136cm - 150cm	Above 150	Total
Bamboo	0	0	0	0	0	0	0	0	0	0	0
Hed, Shivan, Mangrove	0	6	17	12	8	0	2	6	3	7	61
Jambhul	0	0	1	0	0	0	1	0	1	0	3
Moh	0	0	0	0	0	0	0	0	0	0	0
Khair	0	2	6	0	2	0	0	0	0	0	10
Mango	0	0	0	0	0	0	0	0	0	0	0
Injayali	0	18	8	0	0	0	0	0	0	0	26
TOTAL	0	26	32	12	10	0	3	6	4	7	100

Assistant Conservator of Forest, Panvel

Range Forest Officer, Panvel


(TASHISH THAKARE IFS)
 Deputy Conservator of Forests
 Alibag

Tree Cutting Estimate

Range: Uran

Division: Alibag

Estimate – INR 15,15,108.00

Name of Proposal :- BPCL URAN TO GAIL USAR PIPELINE

Village : Rahal, Range : Uran

Thane Forest Circle

Alibag Forest Division

Uran

Talghar, Gavhan, Wahal

Circle:
Division:
Range:
Village:

Item No.	Particulars	Unit	Quantity	Rate (per hundred)	Amount
1	Works before tree cutting.				
	a. Survey and Demarcation				0
	b. Count a tree before tree cutting. (100%)		12431	876.48	108955
	c. Numbering on trees at two side. (100%)		12431	976.48	121386
	d. Hammer marking on trees		12431	876.48	108955
	Total Expenditure before cutting.				339297
2	Clearing the site & Removing the bushes Felling of trees			Lumsump	250000
	30 cm below	Nos.	1003	323	3240
	31 cm to 45 cm	Nos.	10593	500	52965
	46 cm to 60 cm	Nos.	834	1276	10642
	61 cm to 75 cm	Nos.	0	1913	0
	75 cm to 90 cm	Nos.	1	2546	25
	91 cm to 105 cm	Nos.	0	2915	0
	106 cm to 120 cm	Nos.	0	3616	0
	121 cm to 150 cm	Nos.	0	6796	0
	Above 150 cm	Nos.	0	7725	0
	Total		12431		0
3	Preparation of timber				116872
	a. Fashioning of timber preparation per Cmt.	Cum.	-	-	0
	b. Measurement of timber logs per Cmt.	Cum.	-	-	0
	c. Numbering of logs per hundred.	Nos.	12431	177	22002.87
4	Preparation of Firewood				
	A. Stacking 1 Cmt. Of firewood near 50 Mts. Permisses.	Cum.	189.05	124	23442
	I. Tree cutting by axe (100%)	Cum.	189.05	190	35920
	II. Tree cutting by saw (0%)	Cum.	0	0	0
	B. Dragging of Firewood for transportation				
	a. 100 meter (30%)	Cum.	56.715	440	24955
	b. 150 meter (30%)	Cum.	56.715	570	52328
	c. 200 meter (40%)	Cum.	75.62	740	55959
5	Salary of Mukadam (4 person for 2 month)	Nos.	8	11398.92	91191
	Provide drinking water for labour and forest department staff.	lumsump	0	0	30000
	Transporting labour depends on high tide and low tide uncertain matter.	lumsump	0	0	40000
6	Transportation				
	A) Dragging path			0	0
	B) Transport by bullock cart distance & Head load 0 to 2.00 Km.	Cum.		Lumsump	300000
	C) Transport firewood by Truck from Site to Salgaon Depot. (more than 40 Km)				0
	D) Stationary	lumsump			25000
	Total Expenditure for cutting.				580797
7	Depot Expenditure				
	A) Making Stacks of Timber	Nos.	189.05	146	27601.3
	B) Numbering by Nails per hundred	Cum.	0	0	0
	C) Species wise & Measurement wise Distribution of Fuel wood	Cum.	0	0	0
	D) Salary of Mukadam (3 person for 2 month)	0	6	11398.92	68394
	E) For Stationary	lumsump	0	0	10000
	Total Depot Expenditure				103995
	Total			Total	1442960
				5 % Contingencies	72148.0
				Total	1515108.0
				Say	1515108

Note :- Working place is marshy and mud area. Work has to be done according to the tide therefore more mandays is required for it.

Date :

Place :

Assistant Conservator (ASHISH THAKARE IFS)
Deputy Conservator of Forests
Alibag

Range Forest Officer, Uran

Form Factor Calculation

Species	Class	Number of Trees	Form Factor	Cum
Other Misc. Species	Below 30	1003	0.005	5.015
	Below 31-45	10593	0.015	158.895
	Below 46-60	894	0.030	25.02
	Below 61-75	0	0.066	0
	Below 76-90	1	0.122	0.122
Total		12431		189.052
<u>Total</u>				

Di...
परिक्षेत्र वन अधिकारी,
उरण.

Ashish
(ASHISH THAKARE IFS)
Deputy Conservator of Forests
Alibag

Tree Cutting Estimate

Range: Pen

Division: Alibag

Estimate – INR 56,908.00

(28,422.00 + 28,486.00)

वन (संवर्धन), अधिनियम 1980 अंतर्गत उरण ते उसर गॅस पाईपलाईन टाकणेकरीता 3.9443 हेक्टर चा वन जमीन मागणीचा प्रस्ताव, गेल (इंडिया) लिमिटेड, बेलापुर.

Felling Estimate in Pen

Division: Alibag

Range - Pen

Round - belawade

Place - Village Khardutarfa Borli S.No. / Gut.No -216

Name of Depot - Sajgaon

Dist from Depot -

Sr. No.	Description of Work	Unit	Qty.	Rate	Amount Rs.
			No. of Trees		
1	Cutting of trees Girth Class				
	Below 30 cm	Per 100	4	523	20.92
	31cm to 45 cm	Per 100	18	1143	205.74
	46 cm to 60 cm	Per 100	3	1604	48.12
	61 cm to 75 cm	Per 100	1	2171	21.71
	76 cm to 90 cm	Per 100	0	2529	0
	91 cm to 105 cm	Per 100	0	2844	0
	106 cm to 120 cm	Per 100	0	4054	0
	121 cm to 135 cm	Per 100	0	4897	0
	136 cm to 150 cm	Per 100	0	5182	0
	above 150 cm	Per 100	0	8188	0
	Total		26		296.49
2	Preparation of Timber	Per Cms	0	0	0.00
3	Measurment of Timer	Per Cms	0	0	0.00
4	Numbering of Stumps	Per 100	0	0	0.00
5	Preparation of Firewood	Per Cms	1.79	131	234.49
6	Dragging of Firewood	Per Cms	1.79	600	1074.00
7	Dragging of Timber	Per Cms	0	0	
8	Chaukidar for Guarding the materials	1 Night, 1 Day	For one Months	438.42	22797.84
9	Transport of Timber	Per Cms		0	0.00
10	Transport of Firewood	Per Cms	1.79	372	665.88
	Expeses on Depot				
11	Stacking of Timber	Per Cum	0	0	0.00
12	Numbering of Timber with Tools	Per 100	0	0	0.00
13	Stacking of Firewood	Per Cum	0	0	0.00
14	Measurment of Timer	Per Cum	0	0	0.00
15	Material Supply & Stationary				2000.00
	Total				27068.70
	Contingency 5%				1353.435
	Grand Total				28422.14
	Say Rs.				28422

Range Forest Officer
Pen

(ASHISH THAKARE IFS)
Deputy Conservator of Forests
Alibag

वन (संवर्धन), अधिनियम 1980 अंतर्गत उरण ते उसर गॅस पाईपलाईन टाकणेकरीता 3.9473 हेक्टर चा वन जमीन मागणीचा प्रस्ताव. गेल (इंडिया) लिमिटेड, बेलापुर.

Division : Alibag Forest Division
Range : Pen
Round : Belawade
Beat : Belawade

Form Factor of Trees (Cum) (Girth wise) in Forest Land

Mauje Pen - Village Khardutarfa Borli S.No/ Gut.No -216

Species	Particulars	Form Factor (Cum)										Total	Remark
		Below 30 cm	31 to 45 cm	46 to 60 cm	61 to 75 cm	76 to 90 cm	91 to 105 cm	106 to 120 cm	121 to 135 cm	136 to 150 cm	150 cm above		
Teak	No. of Trees	0	0	0	0	0	0	0	0	0	0	0	
	Form Factor	0.025	0.035	0.059	0.109	0.185	0.285	0.414	0.5	0.525	0.535	2.672	
	Total Cum	0	0	0	0	0	0	0	0	0	0		
Khair	No. of Trees	0	0	0	0	0	0	0	0	0	0		
	Form Factor	0.005	0.010	0.015	0.094	0.174	0.25	0.326	0.401	0.476	0.52	2.271	
	Total Cum	0	0	0	0	0	0	0	0	0	0		
Valuable Injayali	No. of Trees	0	0	0	0	0	0	0	0	0	0		
	Form Factor	0.005	0.025	0.047	0.097	0.146	0.196	0.245	0.295	0.344	0.365	1.765	
	Total Cum	0	0	0	0	0	0	0	0	0	0		
Other	No. of Trees	4	18	3	1	0	0	0	0	0	0	26	
	Form Factor	0.01	0.025	0.048	0.082	0.127	0.182	0.247	0.322	0.35	0.370	1.763	
	Total Cum	0.040	0.450	0.144	0.082	0	0	0	0	0	0	0.716	
Total	No. of Trees	4	18	3	1	0	0	0	0	0	0	26	
	Total Form Factor Cum	0.045	0.095	0.169	0.382	0.632	0.913	1.232	1.518	1.695	1.790	8.471	
	Total Cum	0.040	0.450	0.144	0.082	0	0	0	0	0	0	0.716	1.790 Kita

(ASHISH THAKARE IFS)
Deputy Conservator of Forests
Alibag

Range Forest Officer
Pen (Prot.)

न (संवर्धन), अधिनियम 1980 अंतर्गत उरण ते उसर गॅस पाईपलाईन टाकणेकरीता 3.94 हेक्टर चा वन जमीन मागणीचा प्रस्ताव. गेल (इंडिया) लिमिटेड, बेलापुर.

Felling Estimate in Pen

Division: Alibag

Range - Pen

Round - Pen

Place - Odhangi S.No -34 & Washi S.No. 187/2

Name of Depot - Sajgaon

Dist from Depot -

Sr. No.	Description of Work	Unit	Qty.	Rate	Amount Rs.
			No. of Trees		
1	Cutting of trees Girth Class				
	Below 30 cm	Per 100	4	523	20.92
	31cm to 45 cm	Per 100	26	1143	205.74
	46 cm to 60 cm	Per 100	1	1604	48.12
	61 cm to 75 cm	Per 100	0	2171	21.71
	76 cm to 90 cm	Per 100	0	2529	0
	91 cm to 105 cm	Per 100	0	2844	0
	106 cm to 120 cm	Per 100	0	4054	0
	121 cm to 135 cm	Per 100	0	4897	0
	136 cm to 150 cm	Per 100	0	5182	0
	above 150 cm	Per 100	0	8188	0
	Total		31		296.49
2	Preparation of Timber	Per Cms	0	0	0.00
3	Measurment of Timer	Per Cms	0	0	0.00
4	Numbering of Stumps	Per 100	0	0	0.00
5	Preparation of Firewood	Per Cms	1.845	131	241.70
6	Dragging of Firewood	Per Cms	1.845	600	1107.00
7	Dragging of Timber	Per Cms	0	0	
8	Chaukidar for Guarding the materials	1 Night, 1 Day	For one Months	438.42	22797.84
9	Transport of Timber	Per Cms		0	0.00
10	Transport of Firewood	Per Cms	1.845	372	686.34
	Expeses on Depot				
11	Stacking of Timber	Per Cum	0	0	0.00
12	Numbering of Timber with Tools	Per 100	0	0	0.00
13	Stacking of Firewood	Per Cum	0	0	0.00
14	Measurment of Timer	Per Cum	0	0	0.00
15	Material Supply & Stationary				2000.00
	Total				27129.37
	Contingency 5%				1356.46825
	Grand Total				28485.83
	Say Rs.				28486

Range Forest Officer
Pen

(ASHISH THAKARE (FS))
Deputy Conservator of Forests
Alibag

वन (संवर्धन), अधिनियम 1980 अंतर्गत उरण ते उसर गॅस पाईपलाईन टाकणेकरीता 3.84 हेक्टर चा वन जमीन मागणीचा प्रस्ताव. गेल (इंडिया) लिमिटेड, बेलापुर.

Division : Alibag Forest Division
Range : Pen
Round : Pen
Beat : Pen

Form Factor of Trees (Cum) (Girth wise) in Forest Land

Mauje Pen - Village Odhang S.No -34 & Washi S.No. 187/2

Species	Particulars	Form Factor (Cum)										Total	Remark
		Below 30 cm	31 to 45 cm	46 to 60 cm	61 to 75 cm	76 to 90 cm	91 to 105 cm	106 to 120 cm	121 to 135 cm	136 to 150 cm	150 cm above		
Teak	No. of Trees	0	0	0	0	0	0	0	0	0	0	0	
	Form Factor	0.025	0.034	0.059	0.109	0.185	0.285	0.414	0.5	0.525	0.535	2.671	
	Total Cum	0	0	0	0	0	0	0	0	0	0		
Khair	No. of Trees	0	0	0	0	0	0	0	0	0	0		
	Form Factor	0.005	0.01	0.015	0.094	0.174	0.25	0.326	0.401	0.476	0.52	2.271	
	Total Cum	0	0	0	0	0	0	0	0	0	0		
Valuable Injayali	No. of Trees	0	0	0	0	0	0	0	0	0	0		
	Form Factor	0.005	0.025	0.047	0.097	0.146	0.196	0.245	0.295	0.344	0.365	1.765	
	Total Cum	0	0	0	0	0	0	0	0	0	0		
Other	No. of Trees	4	26	1	0	0	0	0	0	0	0	31	
	Form Factor	0.01	0.025	0.048	0.082	0.127	0.182	0.247	0.322	0.35	0.37	1.763	
	Total Cum	0.04	0.65	0.048	0	0	0	0	0	0	0	0.738	
Total	No. of Trees	4	26	1	0	0	0	0	0	0	0	31	
	Total Form Factor Cum	0.045	0.094	0.169	0.382	0.632	0.913	1.232	1.518	1.695	1.79	8.47	
	Total Cum	0.04	0.65	0.048	0	0	0	0	0	0	0	0.738	1.845 Kita

(ASHISH THAKARE IFS)
Deputy Conservator of Forests
Alibag

Range Forest Officer
Pen (Prot.)

Tree Cutting Estimate

Range: Wadkhal

Division: Alibag

Estimate – INR 3,46,675.00

Estimate for Extraction of Timber & fuel wood In the Forest Area from Village Masad Bd, Borve and Beneghat

Reserve forest Gut.No.80/2 Construction of 700 mm underground Pipeline from MIDC water

Treatment Plant,Masad Bd to Gail India Limited ,Usar for FDI PP Plant

Site:-Bhondh-Kharoshi Reserve forest C.No.174 and Dalvi-kharoshi Reserve Forest C.No. 175.

Range :- Wadkhali

Round :- Gadab

Beat :- Pale

Expenditure on Felling Site

Item No	Particulars	Quantities No off Trees	Rate per Hundred	Amount
1	30 cm and Below	22	556	122.32
	31 cm to 45 cm	39	1216	474.24
	46 cm to 60 cm	4	1706	68.24
	61 cm to 75 cm	0	2309	0.00
	76 cm to 90 cm	0	2691	0.00
	91 cm to 105 cm	0	3026	0.00
	106 cm to 120 cm	0	4313	0.00
	121 cm to 135 cm	0	5210	0.00
	136 cm to 150 cm	0	5513	0.00
	151 cm to 180 cm	0	8711	0.00
	181 cm to 200 cm	0	11983	0.00
	201 cm to 250 cm	0	15245	0.00
	251 cm to 300 cm	0	19614	0.00
	301 cm and above	0	23971	0.00
		65	Total	664.80
2	To Prepare Timber	0	335	0.00
	a) Logging	0	631	0.00
	B) Timber Mesurment	0	194	0.00
	C) Numbering the Stools	0	209	0.00
3	A) To Prepare Fuel wood	5.78	110	635.80
	B) Fuel wood Dragging	5.78	1500	8670.00
4	Timber Dragging	0	2000	0.00
5	Making Shed	1	25000	25000.00
6	Transport of Timber 40 Km 72 Rs /Km	0	3817	0.00
7	Transport of Fuel wood 40 Km 73Rs /Km	5.78	2260	13062.80
8	Depot Expenditure			0.00
	A) Making Stalk of Timber	0	244	0.00
	B) Numbering by Nails	0	189	0.00
	C) Species wise and Mesurment wise Distribuition of Fuel wood	0	85	0.00
9	Timber Mesurment	0	50	0.00
10	Dragging path	1	25000	25000.00
11	Depot Watchman for 6 months	1	11075	66450.00
12	Making Tent Shed In Depot	1	25000	25000.00
			Total	164483.40
13	Material Supply & Labour welfare 4%		107095	6579.34
			Total	171062.74
			Say Rs.	171063.00
Total Income				
Sr.No.	Particular	Quantity	Rate	Amount
1	Timber	0	On measurement Chart	0.00
	fuel wood	5.78	797	4548.86
			Total Rs.	175611.86
			Say Rs.	175612.00
			Expected Expenditure	171063.00
			Gross Profit	346675.00
			Say as Gross Profit	346675.00

(ASHISH THAKARE IFS)
Deputy Conservator of Forests
Alibag

परिक्षेत्र वन अधिकारी
वडखळ (मं)

Division of 3.9443 Ha Forest Land for Uran-Ussar Propane Pipeline laying 12" dia Liquid Propane Pipeline along with OFC in Uran, Panvel, Pen & Alibag Tal Taluka, Raigad district in Maharashtra state

Form A

1	2	3	4	5	6	7	8	9	10	11	13	14
Species	15 to 30cm	31 to 45 cm	46 to 60	61 to 75	76 to 90	91 to 105	106 to 120	121 to 135	136 to 150	Above 151	Total Timber (cubic meter)	Fire wood
Tivar	14	27	3	-	-	-	-	-	-	-	-	-
Form Factor (cubic meter)	0.154	1.134	0.324	-	-	-	-	-	-	-	1.612	4.03
Kandal	8	12	1	-	-	-	-	-	-	-	-	-
Form Factor (cubic meter)	0.088	0.504	0.108	-	-	-	-	-	-	-	0.700	1.75
Total Tree	14	27	3	-	-	-	-	-	-	-	-	-
Total Form Factor (cubic meter)	0.242	1.638	0.432	-	-	-	-	-	-	-	2.312	5.78

Anshu
ANSHU THAKARE (IFS)
Deputy Conservator of Forests
Alibag

Sd/-
Range Forest Officer
Wadkhai

Sd/-
Forester Gadab

Division of 3,9443 Ha Forest Land for Uran-Usar Propane Pipeline laying 12" dia Liquid Propane Pipeline along with OFC in Uran, Panvel, Pen & Alibag Tal Taluka, Raigad district in Maharashtra state

Form B

1	2	3	4	5	6	7	8	9	10	11	12	13
Species	15 to 30cm	31 to 45 cm	46 to 60	61 to 75	76 to 90	91 to 105	106 to 120	121 to 135	136 to 150	Above 151	Total	Total Timber
Tivar	14	27	3	0	0	0	0	0	0	0	44	1.612
Kandal	8	12	1	0	0	0	0	0	0	0	21	0.7
Total Tree	22	39	4	0	0	0	0	0	0	0	65	2.312

Anur
THAKRE (IFS)
Deputy Conservator of Forests
Alibag

Sd/-
Range Forest Officer
Wadkhali

Sd/-
Forester Gadab

Tree Cutting Estimate

Range: Alibag

Division: Alibag

Estimate – INR 29,21,689.00

**Felling Estimate in Proposal Diversion of 3.761 ha. Forest land of Construction of Gas Pipe Line
underground Pipe line from Uran to Usar in Alibag Range**

Division: Alibag

Range - Alibag

Round - Tinveera, Kawir, Kankeshwar

Place - Shabaj, Talashet, Dalvi Kharoshi, Bopoli, Beloshi, Kune, Shahapur

Name of Depot - Sahangothi

Dist from Depot - 30 k.m.

Expenditure on Felling Site

Item No	Particulars	Quantities	Rate per Hundred	Amount
		No of Trees		
1	30 cm and Below	1199	556	6666.44
	31 cm to 45 cm	618	1216	7514.88
	46 cm to 60 cm	260	1706	4435.60
	61 cm to 75 cm	157	2309	3625.13
	76 cm to 90 cm	98	2691	2637.18
	91 cm to 105 cm	28	3026	847.28
	106 cm to 120 cm	11	4313	474.43
	121 cm to 135 cm	2	5210	104.20
	136 cm to 150 cm	5	5513	275.65
	151 cm to 180 cm	2	8711	174.22
	181 cm to 200 cm	0	11983	0.00
	201 cm to 250 cm	0	15245	0.00
	251 cm to 300 cm	1	19614	196.14
	301 cm and above	0	23971	0.00
		2381	Total	26951.15
2	To Prepair Timber	141.251	335	47319.09
	a) Logging	141.251	631	89129.38
	B) Timber Mesurment	141.251	194	27402.69
	C) Numbring the Stools	141.251	209	29521.46
3	A) To Prepair Fual wood	345.291	110	37982.01
	B) Fire wood Dragging	345.291	1500	517936.50
4	Timber Dragging	141.251	2000	282502.00
5	Making Shed	6	1278	7668.00
6	Transport of Timber 40 Km 72 Rs /Km	141.291	3817	539307.75
7	Transport of Fire wood 40 Km 73Rs /Km	345.291	2260	780357.66
8	Depot Expenditure			0.00
	A) Making Stalk of Timber	141.251	244	34465.24
	B) Numbering by Nails	141.251	189	26696.44
	C) Species wise and Mesurment wise Distribution of Fire wood	141.251	85	12006.34
9	Timber Mesurment	141.251	50	7062.55
10	Dragging path	3	25000	75000.00
11	Depot Watchman for 6 months	6	208008	208008.00
12	Making Tent Shed in Depot	6	10000	60000.00
			Total	2809316.25
13	Material Supply & Labour welfare 4%		110923	112372.65
			Total	2921688.90
			Say Rs.	2921689.00

**(ASHISH THAKARE IFS)
Deputy Conservator of Forests
Alibag**

परिक्षेत्र वन अधिकारी
अलिबाग

Diversion of 3.9443 Ha Forest Land for Uran-Usar Propane Pipeline laying 12" dia Liquid Propane Pipeline along with OFC in Uran, Panvel, Pen & Alibag Tal Taluka, Raigad district in Maharashtra state

Range - Alibag Round - Alibag Beat - Tinvira Village Name : Shabaj, Reserved Forest Gut No 346 (Mangrove) & Village Bopoli Comp No. 175 Survey No 22.23 Dalvi Kharoshi Comp No.165, 174. Talasheth Gut No. 42, Villah Shahapur RF Gut No.346 (Magrove)

Form A

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Species	15 to 30cm	31 to 45 cm	46 to 60	61 to 75	76 to 90	91 to105	106 to 120	121 to135	136 to 150	Above 151	Total	Total Timber (cubic meter)	Fire wood
Tiek	83	69	32	23	13	1	1	0	0	0	220	14.586	36.465
Form Factor (cubic meter)	2.851	2.009	2.238	3.18	3.768	0.313	0.227	0.000	0.000	0.000	14.586		
Khair	8	3	1	1	0	0	0	0	0	0	13	0.331	0.828
Form Factor (cubic meter)	0.085	0.095	0.045	0.106	0.000	0.000	0.000	0.000	0.000	0.000	0.331		
Superier Injayali	119	73	36	18	10	2	1	1	2	0	262	19.717	49.293
Form Factor (cubic meter)	0.996	2.647	3.845	4.125	3.545	0.338	1.350	1.465	1.406	0.000	19.717		
Infairial Injayali	461	235	62	25	17	14	5	1	3	3	800	67.144	167.860
Form Factor (cubic meter)	4.570	8.459	10.090	6.047	6.578	9.373	5.326	1.056	5.775	9.870	67.144		
Total Tree	671	380	131	67	40	17	7	2	5	3	1323	-	-
Total Form Factor (cubic meter)	8.502	13.210	16.218	13.458	13.891	10.024	6.903	2.521	7.181	9.870	101.778	101.778	254.4450

Sd/-
Range Forest Officer
Alibag

Sd/-
Forester Tinvira

(Signature)
(ASHISH THAKARE IFS)
Range Conservator of Forests
Alibag

Diversion of 3.9443 Ha Forest Land for Uran-Usar Propane Pipeline laying 12" dia Liquid Propane Pipeline along with OFC in Uran, Panvel, Pen & Alibag Tal Taluka,
Raigad district in Maharashtra state

Range - Alibag Round - Alibag Beat - Tinvira Village Name : Shabaj, Reserved Forest Gut No 346 (Mangrove) & Village Bopoli Comp No. 175 Survey No 22.23 Dalvi
Kharoshi Comp No.165, 174. Talasheth Gut No. 42, Village Shahapur RF Gut No.346 (Mangrove)

Form B

1	2	3	4	5	6	7	8	9	10	11	12
Species	15 to 30cm	31 to 45 cm	46 to 60	61 to 75	76 to 90	91 to105	106 to 120	121 to135	136 to 150	Above 151	Total
Tick	83	69	32	23	13	1	1	0	0	0	220
Khair	8	3	1	1	0	0	0	0	0	0	13
Superier Injayali	119	73	36	18	10	2	1	1	2	0	262
Infairial Injayali	461	235	62	25	17	14	5	1	3	3	800
Total Tree	671	380	131	67	40	17	7	2	5	3	1323

Sd/-
Range Forest Officer
Alibag

Sd/-
Forester Tinvira


(ASHISH THAKARE IFS)
Deputy Conservator of Forests
Alibag

Diversion of 3.9443 Ha Forest Land for Uran-Usar Propane Pipeline laying 12" dia Liquid Propane Pipeline along with OFC in Uran, Panvel, Pen & Alibag Tal Taluka, Raigad district in Maharashtra state

Range - Alibag Round - Kavir Beat - Beloshi (N) & Bherase Village Name : Beloshi RF Compt No.188 A & Kune RF Compt No. 173

Form A

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Species	15 to 30cm	31 to 45 cm	46 to 60	61 to 75	76 to 90	91 to 105	106 to 120	121 to 135	136 to 150	Above 151	Total	Total Timber (cubic meter)	Fire wood
Tick	97	40	4	2	0	0	0	0	0	0	143	1.655	4.1375
Form Factor (cubic meter)	0.679	0.800	0.176	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.655	1.655	4.1375
Khair	1	2	0	0	0	0	0	0	0	0	3	0.066	0.165
Form Factor (cubic meter)	0.014	0.052	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.066	0.066	0.165
Superier Injayali	102	27	8	2	0	1	1	0	0	0	141	2.595	6.488
Form Factor (cubic meter)	1.122	0.594	0.32	0.164	0.000	0.187	0.208	0.000	0.000	0.000	2.595	2.595	6.488
Infairial Injayali	221	95	36	13	3	1	0	0	0	0	369	8.052	20.130
Form Factor (cubic meter)	1.326	2.660	1.980	1.287	0.492	0.307	0.000	0.000	0.000	0.000	8.052	8.052	20.130
Total Tree	421	164	48	17	3	2	1	0	0	0	656	-	-
Total Form Factor (cubic meter)	3.141	4.106	2.476	1.451	0.492	0.494	0.208	0.000	0.000	0.000	12.368	12.368	30.9200

Sd/-
Range Forest Officer
Alibag

Sd/-
Forester Kavir


(ASHISH THAKARE IFS)
Deputy Conservator of Forests
Alibag

Diversion of 3.9443 Ha Forest Land for Uran-Usar Propane Pipeline laying 12" dia Liquid Propane Pipeline along with OFC in Uran, Panvel, Pen & Alibag Tal Taluka, Raigad district in Maharashtra state

Range - Alibag Round - Kaviti Beat - Beloshi (N) & Bherase Village Name : Beloshi RF Compt No.188 A & Kune RF Compt No. 173

Form B

1	2	3	4	5	6	7	8	9	10	11	12
Species	15 to 30cm	31 to 45 cm	46 to 60	61 to 75	76 to 90	91 to 105	106 to 120	121 to 135	136 to 150	Above 151	Total
Tick	97	40	4	2	0	0	0	0	0	0	143
Khair	1	2	0	0	0	0	0	0	0	0	3
Superier Injayali	102	27	8	2	0	1	1	0	0	0	141
Infairial Injayali	221	95	36	13	3	1	0	0	0	0	368
Total Tree	421	164	48	17	3	2	1	0	0	0	656

Sd/-
Range Forest Officer
Alibag

Sd/-
Forester Kavir


(ASHISH THAKARE IFS)
Deputy Conservator of Forests
Alibag

Diversion of 3.9443 Ha Forest Land for Uran-Usar Propane Pipeline laying 12" dia Liquid Propane Pipeline along with OFC in Uran, Panvel, Pen & Alibag Tal Taluka, Raigad district in Maharashtra state

Range - Alibag Round - Kankeshwar Beat - Kankeshwar

Village Name : Shahapur, Reserved Forest Gut No 346 (Mangrove)

Form A

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Species	15 to 30cm	31 to 45 cm	46 to 60	61 to 75	76 to 90	91 to 105	106 to 120	121 to 135	136 to 150	Above 151	Total	Total Timber (cubic meter)	Fire wood
Mangrove	107	74	81	73	55	9	3	0	0	0	402	23.802	59.505
Form Factor (cubic meter)	0.535	1.85	3.807	7.081	8.03	1.764	0.735	0.000	0.000	0.000	23.802	23.802	59.505
Total Tree	107	74	81	73	55	9	3	0	0	0	402	-	-
Total Form Factor (cubic meter)	0.535	1.850	3.807	7.081	8.030	1.764	0.735	0.000	0.000	0.000	23.802	23.802	59.505

Sd/-
Range Forest Officer
Alibag

Sd/-
Forester Kankeshwar

prakash
(MCHISH) THAKARE (IFS)
Deputy Conservator of Forests
Alibag

Diversion of 3.9443 Ha Forest Land for Uran-Usar Propane Pipeline laying 12" dia Liquid Propane Pipeline along with OFC in Uran, Panvel, Pen & Alibag Tal Taluka,
Raigad district in Maharashtra state

Range - Alibag Round - Kankeshwar Beat - Kankeshwar

Village Name : Shahapur, Reserved Forest Gut No 346 (Mangrove)

Form B

1	2	3	4	5	6	7	8	9	10	11	12
Species	15 to 30cm	31 to 45 cm	46 to 60	61 to 75	76 to 90	91 to 105	106 to 120	121 to 135	136 to 150	Above 151	Total
Mangrove	107	74	81	73	55	9	3	0	0	0	402
Total Tree	107	74	81	73	55	9	3	0	0	0	402

Sd/-
Range Forest Officer
Alibag

Sd/-
Forester Kankeshwar


(ASHISH THAKARE IFS)
Deputy Conservator of Forests
Alibag