

PROJECT REPORT

FEASIBILITY REPORT OF STONE QUARRY FOR THE
CONSTRUCTION OF T-15 PART T-14 UNDER PKG-
T-15 INCLUDING BRIDGE No. – 61

BEING EXECUTED

BY

AGE –PATEL JV

AT

SANGALDAN, DISTT. RAMBAN, (J&K)



Highlights:

1. Applicant name : M/s AGE-PATEL JV
2. Applicant Address : Village Mohara Chhakani, P.O
Sangaldan, Tehsil Gool, Distt.
Ramban (J&K)
3. Line of Activity : Construction of Tunnel T-15, Part
Tunnel T-14 Including Bridge No. – 61
(Between Km 73.785 to Km 86.848
approx.) on Katra-Banihal Section of
Udhampur-Srinagar-Baramulla New BG
Railway Line Project (Package T-15).
4. Owner : NORTHERN RAILWAY
5. Client : IRCON INTERNATIONAL LTD.
(A Govt. Of India Undertaking)
6. Place : Near T-14 New Adit, Dehda, Forest
Comptt. no. 70/Ar. Quarry is to be operated
7. UT : Jammu & Kashmir
District : Ramban
Town/Village : Sangaldan
8. Duration of quarry operation : Till Completion of Pkg, T-15 Works



Introduction:-

AGE-PATEL JV (First Indian Construction Co. having certification of ISO 14000:2015, ISO 9001:2015 & OHSAS 18001:2007) C/o PATEL Estate ,Jogeshwari (West) Mumbai-400102 hereby propose to operated stone quarry at near, New Adit, Ind Vill: Dehda, Tehsil: Gool, Distt: Ramban in forest comptt. No.: 70/Ar. The above said project is Prestigious Project of Jammu & Kashmir Railways Project has been awarded to AGE-PATEL JV, registered under company' ACT 1956 (Act-1 of 1956) vide no. IRCON/J&KCELL/JAT/14/1014/K-B/T-15/326/1018 DATED 14/04/2016

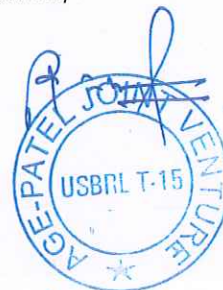
M/s IRCON INTERNATIONAL LTD., (Govt. Undertaking) of construction of Tunnel T-15, Part Tunnel T-14 Including Bridge No. – 61 (Between Km 73.785 to Km 860848 approx) on Katra- Banihal section of Udhampur- Srinagar –Baramulla New BG Railway Line Project (Package T-15), Jammu & Kashmir. Since last 67 years Patel Engineering Ltd. has completed & commissioned numbers of prestigious project all over India and abroad. The company is carrying on business as Infrastructure developers, Builders and General Construction Contractors and amongst other things construct, execute, carry out quip, work develop, administer and repair, power plant, railways, roadways, docks, harbors, canals, Dams, Tunnels, Irrigation, Power Houses, Buildings, including The business of Architect.

It is pertinent to mention that for the construction of above said Railway Project, approx. quality of coarse & fine aggregates are required which is not available in & around the Project area & available quarry is not sufficient.

We approached to District higher authorities to identify & provide suitable land for quarry operation in and around the project area. Subsequently, they conveyed that no revenue land is available in this area & identified forest land for quarry operation. Then after joint survey with forest officials.

In DPR made by Railway/IRCON, it is envisaged that 60% excavated materials of tunneling shall be suitable for the production of aggregates & remaining materials shall be made available from the available quarries in and around the project area.

However, as on today, it is observed that excavated materials from ongoing tunneling works is not as envisaged for the quality of the boulders and its suitability for aggregate production as per technical specification. As mentioned, from proposed Quarry we can produce approx. 5,05,922m³ boulders for the construction of materials & anticipated that remaining requirement may meet from the excavated materials of tunnels as indicated in geological maps & section provided by Railway.



1. It is pertinent to mention that huge Qty. of good quality of Aggregates are requirement for the timely completion of this prestigious project and without quality raw materials mentioned technical specification of underground works cannot meet.
2. Enhancement in scope of work:-To expedite program of the ongoing works & speedy completion of the works additional Adits T-15/T-14 has been introduced at Pkg, T-15 to meet the targets set by Hon. L.G., (J&K) UT.
3. Availability of approved quality materials is not sufficient in the vicinity of the project area & it is also not feasible as per technical specification of contract.
The samples of the rock the proposed quarry has been collected & lab test has been conducted & found suitable as per technical specification.
4. All possibilities have been explored, but this much huge quantity of raw materials for aggregate is not found available in the nearby project area to meet our requirement.
5. Establishment of own crushing unit near project site is inescapable requirement as per contract provisions, hence AGE-PATEL has to establish own crushing unit for the production of sufficient & quality aggregates & to meet project requirement.
6. We have envisaged that 50-60% of quantity raw materials will be available from the tunnel excavated materials as per the Geological reports/data and 40 to 50 % of quality aggregate will have to be arranged from stone quarry. So, that additional Stone Quarry for the production of aggregate is of utmost importance and to be obtained necessary permissions from appropriate authorities.
7. Keeping in view of the above, 02 pieces of forest land has been identified for stone quarry which is within the project site. Approx. 0.739 Ha near to Batching Plant, T14 New Adit and approx.0.254 Ha near to T-14 new Adit, Ind in the forest compartment no. 70/Ar. (total proposed area is 0.993 Ha) at village-Dehda, Tehsil-Gool, District-Ramban.

Petrography Examination report of boulders is enclosed for your reference.

Project Director


Mr. R.P. Khajuria
(Authorized Signatory)



AGE - PATEL JOINT VENTURE

JUSTIFICATION FOR LOCATING THE STONE QUARRY IN FOREST LAND

As on today, it is observed that excavated materials from ongoing tunneling works is not as envisaged for the quality of the boulders and its suitability for aggregate production as per technical specification. As mentioned, from proposed Quarry we can produce approx. 5,05,922m³ boulders for the construction of materials & anticipated that remaining requirement may meet from the excavated materials of tunnels as indicated in geological maps & section provided by Railway.

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This is for your information and record please.

For & Behalf of

AGE-PATEL JOINT VENTURE

R. P. Khajuria
(Authorized Signatory)

Date: 12.12.2020

C/o. Patel Engineering Ltd.

Patel Estate Road, Jogeshwari (W), Mumbai 400 102, India

Tel.: 022 26767500, Fax : 022 26781505 / 26782455

Email : usbrl-t15@pateleng.com

AGE - PATEL JOINT VENTURE

CERTIFICATE REGARDING DISPOSAL OF MUCK WHILE EXTRACTION OF BOULDERS

This is to certify and conform that No muck will produce while extracting boulders from new proposed stone quarry in forest compartment no. 70/Ar near T14 new Adit, Ind, as No overburden / top soil is available at said proposed locations.

Further we would like to inform you that extracted boulder will be exclusively used for the production of required aggregates at our crusher plant for the construction work of Pkg T-15 under USBRL as mentioned in Contract Agreement between AGE Patel JV and IRCON International Ltd.

This is for your information and record please.

For & Behalf of

AGE-PATEL JOINT VENTURE


R. P. Khajuria
(Authorized Signatory)

Date: 12.12.2020



इरकॉन इन्टरनेशनल लिमिटेड
(भारत सरकार का उपक्रम)



IRCON INTERNATIONAL LIMITED

(A GOVT. OF INDIA UNDERTAKING)

An Integrated Engineering and Construction Company

Banihal Office :

USBRL Project,
Vill-Krawah, Post-Banihal,
Distt-Ramban, J&K-182146
Tele Fax : 01998-255708

Jammu Office :

USBRL Project Office
Satyam Complex, Marble Market,
Jammu-180011.
Tel : 0191-2484842, Fax : 0191-2484812

No. IRCON/1014/J&K//B/USBRL/Pkg-T-15/5213

Date: 12.12.2020

PROJECT DIRECTOR

M/S AGE- PATEL JV

VILL. – Moharachhakani, PO – Sangaldan

Tehsil- Gool, Disstt. - Ramban – 182144

Kind Attn: Mr. R.P. Khajuria

Subject: Construction of Tunnel T-15, part tunnel T-14 including bridge no.61 on katra – banihal section of USBRL Project, J&K (PKG-T15) – **Report submitted for approval of project report.** (Stone Quarry near New Adit T-14) *Ar*

Ref: -i) LOA No: IRCON/J&K Cell/JAT/14/1014/K-B/T-15/326/8345, Dtd: 17.03.2016

iii) Your letter No. 100/351/USBRL-T-15/APJV-KD/1048 dated 12.12.2020.

Dear Sir,

The feasibility report submitted for establishing a stone quarry near New Adit T-14, in forest compartment No 70/Ar is agreed in principal.

You are requested to go ahead for acquisition process with the concerned authorities. This approval is being agreed only for the work of Package T-15 as mentioned in the contract agreement between M/s AGE PATEL-JV and IRCON International Ltd, subject to the suitability of boulders as per petrographic, physical and chemical analysis of boulders as per approved ITP.

You are further requested to collect the joint sampling with IRCON and DDC earliest so that formal approval can be processed.

Thanking you

Yours faithfully

S.K. Rastogi
12-12-2020

(S.K.Rastogi)

General Manager/SDN

Copy To:

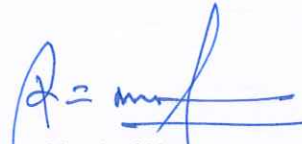
- 1) CGM/SDN, for kind information please.
- 2) AGM T15, JGM/T15 for information and needful.
- 3) DGM/Quality, DGM/C, for information and needful.



DETAILS OF AMOUNT TO BE PAID BY THE USER AGENCY AGE PATEL

S.No.	Items	Amount in Rs (in lacs)
1.	Net present value of 0.98 ha forest area as per the Hon'ble Supreme Court	6.524
2.	Compensatory Afforestation for double the area diverted for the project (11.92	3.040
3.	Cost and Compensation of the trees	0.862
	Total	10.426
	In words	Ten Lacs, four thousands, two hundred and twenty six rupees only


Range Officer
Range Forest Officer
Forest Range Gool


Head of User Agency

Date. 24/12/20
Place Ranban

C/S

Divisional Forest Officer
Forest Division
Office Seal
Bamban Forest Division
Ranban

**Compensation of trees coming under the quarry in
Compartment No.70/AR (Gool Range)**

S.No.	Species	Dia-Class	Numbers	Rate	Amount (in Rs.)
1	Chir (Pinus roxborgii)	0-10	14	77	1078
2		10-20	02	231	462
3		20-30	02	462	924
4		40-50	02	3080	6160
5		Total	20		8624

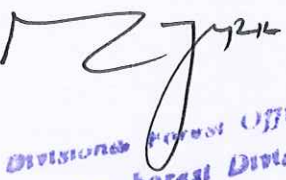
Handwritten notes:
Name :- Jekongir Ahmed
Fgdh
Beet:- Bishomdas.

Signature: 
Ab. Bashir
Block Forest Officer
Block Deddha

Signature: 
Range Forest Officer
Forest Range Gool

Signature: 

9/s

Signature: 
Divisional Forest Officer
Bamban forest Division
Bamban

**Enumeration list of trees of Gool Range in Compartment
No.70/GR**

S.No.	Compartment	Species	Dia
01	70/GR	Chir (Pinus roxborgii)	20-30
02			20-30
03			10-20
04			0-10
05			0-10
06			0-10
07			10-20
08			40-50
09			40-50
10			0-10
11			0-10
12			0-10
13			0-10
14			0-10
15			0-10
16			0-10
17			0-10
18			0-10
19			0-10
20			0-10

Abstract

Sr. No	Scientific Name	Local name	0-10	10-20	20-30	30-40	40-50	Total
	Pinus roxborgii	Chir	14	02	02	0	02	20

Shi
Bisham
dame!- jahangir Ahmed.

Ab. Bashir
Block Forest Officer
Block Daddha

Q = m

Range Forest Officer
A Forest Range Gool

C/S


Divisional Forest Officer
Bamban Forest Division
Bamban

**Details of compensatory afforestation on forest land in lieu of Forest land diverted for Project UDHAMPUR-SRINAGAR-BARAMULLA-RAIL
LINK PROJECT The proposed approach road is the only connecting link between Tunnel 14 and 15 which are being
constructed for new railway line and the same is also an important part of disaster management plan. Proposal No. FP/JK/RAIL/43729/2020**

Area to be diverted for the Project		0.99 ha	Latitude:- 33°14'21.83"N 75° 1'58.07"E			
Title of the land		Forest				
Compartment		57/Ar				
Block		Dedha				
Range		Gool				
Forest Division		Ramban				
Area for CA (Double)		1.98 Ha				
Crown density		0-40 %				
No. of Patches		1				
S.No.	Description		Area (in Ha)	Fencing (in Rft.)	Rate Per Rft.	Amount (in Lacs)
1	Using Square PCC Fence Posts :- Using Square PCC Fence Posts conforming to product code PCHP-4 at spacing of 10 feet and 4 strands of black annealed Barbed Wire conforming to the product code BA-BW. At least every 8th fence post along the straight fence line and every fence posts at the corner be fixed in the cement concrete block of size 1'6"x1'x1'.		1.98	1880	72.78	1.36826
2	Planting of polybagged plants in pits (45 x 45 x 45 Cms) of species Deodar, Kail and other broad leaved species.		Nos	1000	29.34	0.29340
3	Planting of Naked Root plants in pits (45 x 45 x 45 Cms) of species local species like Rubinia, Melia, Almus, Apricot etc.		Nos	1000	23.17	0.23170
4	Raising of the sapling in Polybaags of size 9"x3"		Nos	1000	8.03	0.08030
5	Raising of naked root sapling		Nos	1000	7.44	0.07440
6	Dibbling in Patches (45 x 45 x 15 Cms)		Nos	300	7.18	0.02154
7	Sowing in Patches (45 x 45 x 15 Cms)		Nos	300	6.99	0.02097
9	Construction of inspection Path 1.00 meter wide with standard specification.		Km	0.5	36971	0.18486
12	Maintenance of the closure for 10 years	BUC for 1st year(@25%), 2nd year(@15%) and 1st year(@3rd year 5%)	No.	900	29.34	0.23630
		Repair and rennovation of fencing on 3rd year, 6th year and 9th year	I.S			0.23630
		Maintenance of conifers in polybags for 1st year	No.	1000	2.66	0.02660
		Maintenance of conifers in polybags for 1st year	No.	1000	2.66	0.02660
		Maintenance of conifers in polybags for 3rd	No.	1000	3.83	0.03830
13	Unforeseen expenditure		I.S			0.20000
		G.Total				3.03952


Range Officer
Gool
Range Forest Officer
Forest Range Gool


User Agency Head

93

Divisional Forest Officer
Ramban Forest Division
Ramban
Ramban Forest Division

**STATEMENT SHOWING DETAILS OF FOREST AREA
PROPOSED FOR NON-FORESTRY USE**

S.No.	District	Division	Range	Comptt. Number	Forest Area* proposed for Diversion (Ha.)	Protected Area, If any (Ha)	Remarks
1	2	3	4	5	6	7	8
A.	Ramban	Ramban	Gool	70/Ar.	0.739	NIL	-
B.	Ramban	Ramban	Gool	70/Ar.	0.254	NIL	-
Total					0.993	NIL	-

* In case of linear projects, length and width may also be provided along with area in col. (6).


Range Officer
Range Forest Officer
Forest Range Gool

Date.....24/12/20.....

Place.....Ramban.....


Head of User Agency




Divisional Forest Officer
Ramban, Forest Division
Office Seal.....Ramban.....

CALCULATION SHEET OF NET PRESENT VALUE

S.No.	Division	Comptt. Number	Forest Area (Ha.)	Canopy Density	Eco-Class	NPV Rate (Lac Rs. /Ha)	NPV Amount (Rs. In Lacs)
1	2	3	4	5	6	7	8
A	Ramban	70/Ar.	0.739	Open	V	657000	485523
B	Ramban	70/Ar.	0.254	Open	V	657000	166878
Total			0.993				652401


Range Officer
 Range Forest Officer
 Forest Range Gool

Date. 24/12/20


Head of User Agency

 6/5

Divisional Forest Officer

Ramban, Forest Division
 Office Seal 


UNDERTAKING FOR PAYMENT OF NPV AND OTHER COMPONENTS

It is to certify that I / ~~We~~ Ram Paul Khajuria (For AGE Patel JV) have applied for diversion of 0.993 ha. Of forest area for the purpose of Stone Quarrying

I/We, hereby, undertake to pay the net present value (NPV)/ of the above forest land and CA/cost of trees. I/we also hereby undertake to pay the additional amount of NPV, if so determined as per the decision of the Hon'ble Supreme Court. I also undertake to pay the amount as assessed for the compensatory afforestation, compensation of tress and other components as decided in the case.

Place: Ranban

Date: 24/12/20

Signature of User Agency
Office Seal



CERTIFICATE FOR MINIMUM USE OF FOREST LAND

This is to certify that all alternate alignments/locations have been tried and the forest area of 0.993 ha, involved in the proposal is unavoidable and barest minimum in the proposed diversion.


Range Officer
Forest Range Gool

Place: Ramban

Date: 24/12/20


Signature of User Agency
Office Seal


Countersigned -

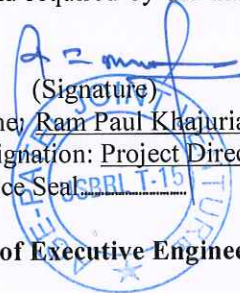

Divisional Forests Officer
Ramban, Forest Division
Office Seal _____

JOINT SITE INSPECTION REPORT

A proposal has been submitted under the "The Forest (Conservation) Act, 1980 for use of forest land for non-forestry purpose. The subject envisages the use of forest land for (purpose) **0.993 Ha. For Stone Quarrying**. The site inspection of the land involved in the proposal has been done by us on dated **28.11.2020**.

On inspection of the site, it is found that the land required by the user agency is a forest measuring **0.993** ha.

Date: **28.11.2020**

(Signature)
Name: **Ram Paul Khajuria**
Designation: **Project Director**
Office Seal: 

(User Agency: Not below the rank of Executive Engineer)

(a) The user agency has not violated the provisions of Forest (Conservation) Act, 1980 and no work has been started without proper sanction. ✓

(b) It has been found that the user agency has violated the Forest (Conservation) Act, 1980 provisions. A detailed report is attached. ✗

(Note: Whichever of the above is applicable should be shown in bold letters)

Specific recommendation for acceptance or otherwise of the proposal.


Range Officer
Forest Range Gool

Place: **Ramban**.....

Date: **29/12/20**.....

(Signature)

Name
Designation
Office Seal: 

(Forest Officer not below the rank of DFO)

**TERMS AND CONDITIONS TO BE ACCEPTED BY THE USER
AGENCY I.E.**

Proposal No.:- FP/JK/QR/50085/2020

Full Title of Project: Construction of Tunnel T-15 part T-14 including bridge no. 61 (between km 73.785 to km 86.848 approx.) On Katra-Banihal Section of USBRL Project.

1. The proprietary Status of Forest land shall remain unchanged.
2. The Forest Land so diverted shall be utilized for the purpose for which it has been diverted. It shall not be transferred to any other agency without approval of the Forest Department.
3. The Forest land so diverted shall not be mortgaged, reassigned or sub-leased by the user agency in any manner what so ever to any other agency.
4. The User agency shall pay compensation of land on account of change land use which shall be equivalent to cost of land as per Net Present Value (As per the orders of the Hon'ble Supreme Court of India Order dated 28.03.2008 and order dated:09.05.2008 in LA No. 8216 in 566 other related I. As regarding the rate of NPV of Forest Land.
5. The User agency shall pay on account of compensation of trees at two times the standard rate of 1992 & cost of trees.
6. The User agency shall pay on account of compensation Afforestation scheme over degraded Forest land (Double the area involved).
7. The extraction of trees shall be carried out departmentally/SFC on the basis of marking list technically sanctioned administratively approved by CCF.
8. The User agency shall construct retaining/ breast walls on both sides on the alignment and will take all necessary steps to minimize the Soil erosion/ landslides. In this regard the user agency shall seek technical guidance from Director Soil Conservation Department J&K.
9. Any damage done to the Forest by the User agency, its employees, contractor, or people employed by them shall be charged from the user agency @ 10 times the standard rate of 1992 as penalty.
10. The Forest Land so diverted shall return to the Forest department when it is not required by the User agency without any cost.
11. The User agency shall also pay any other amount which will become payable as per order of Hon'ble Supreme Court. Or Govt. / Forest department, J&K.
12. The possession of forest land allowed for use of non-forestry purpose under the orders of the competent authority should not be handed over to the user agency till allayment's due against compensation of trees, NPV/ compensation of land, Compensatory Afforestation costs etc are not deposited under rules. Before handling over the possession of Forest Land it should be further ensured that there are no outstanding dues with the said user agency in respect of the cases sanctioned in the past.
13. The User agency shall make the payment or enhanced rate as and when the same are revised by the Govt. Or Hon'ble Supreme Court of India.



14. The User agency shall not throw the muck/mulba in a haphazard manner. The mulba shall be dumped/ thrown on the selected sites. If any activity found to be outside the identified area, a penalty at ten times of the original cost shall be imposed.
15. The User agency shall construct retaining wall/ crate work before start of construction work where slope is above 30°.
16. The User agency shall make payment before start of construction work.
17. The User agency shall start construction work only after the extraction of trees is carried out, if the work is started before removal of trees penalty as warranted under law shall be imposed.
18. The User agency will pay for the extraction charges of timber/ firewood for the tree coming under the alignment.
19. User agency will also pay Net Present Value (NPV) Rs. 652401 ^{Lacs} ~~lacs~~ in accordance with the orders of the Hon'ble Supreme Court.
20. User agency will also pay cost and compensation of the trees/ pole 0.862 lacs to Forest Department under rules coming under alignment.
21. The User Agency will pay Compensatory Afforestation to the tune of Rs. ~~5000~~ lacs for the said project. 3.040

Signature of user Agency With seal



(Signature)

Date: 24/12/20

Name [Signature] ^{4/5}

Designation [Signature] ⁷²¹⁴

Office Seal [Signature]

Divisional Forest Officer
Bambur Forest Division
Bambur

(Forest Officer not below the rank of DFO)



B-6 B-7 TREE
B-5 Area 7389.157 M NALHA
B-4 2 NALHA
B-3 ESCAPE TUNNEL
B-2 ADIT-T-14

APPROACH ROAD TO PROPOSED STONE QUARRY

FOREST COMPARTMENT 70/Ar STONE QUARRY

Area 0.254Ha

ADIT T-14 Area 2540.471M

ROAD TO NEW

FOREST COMPARTMENT 70/Ar STONE QUARRY NEAR T14

Image © 2020 CNES / Airbus
© 2020 Google



Imagery Date: 10/29/2017 33°11'53.81" N 75°02'42.41" E elev 4098 ft eye alt 5624 ft



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07-Dec-20

67-2-20



FOREST COMPARTMENT 70/Ar STONE QUARRY-NEAR T14 NEW ADIT OFFICE

PROPOSED STONE QUARRY

J SITE OFFICE BD-1BD-5BD-4 BD-4

Area 2540.471M

ROAD TO NEW ADIT T-14

BD-3 ROAD TO ADIT T-14 PORTAL SIDE



© 2020 Google
Image © 2020 Maxar Technologies
Image © 2020 CNES / Airbus



*Divisional Forest Officer
Bamboo Forest Division
Ramban*

2009

Imagery Date: 10/29/2017 33°12'00.42" N 75°02'38.54" E elev 3678 ft eye alt 5623 ft



6:28 PM
07-Dec-20