

15 -ാം കേരള നിയമസഭ

7 -ാം സമ്മേളനം

നക്ഷത്ര ചിഹ്നം ഇല്ലാത്ത ചോദ്യം നം. 1973

09-12-2022 - ൽ മറുപടിയ്ക്ക്

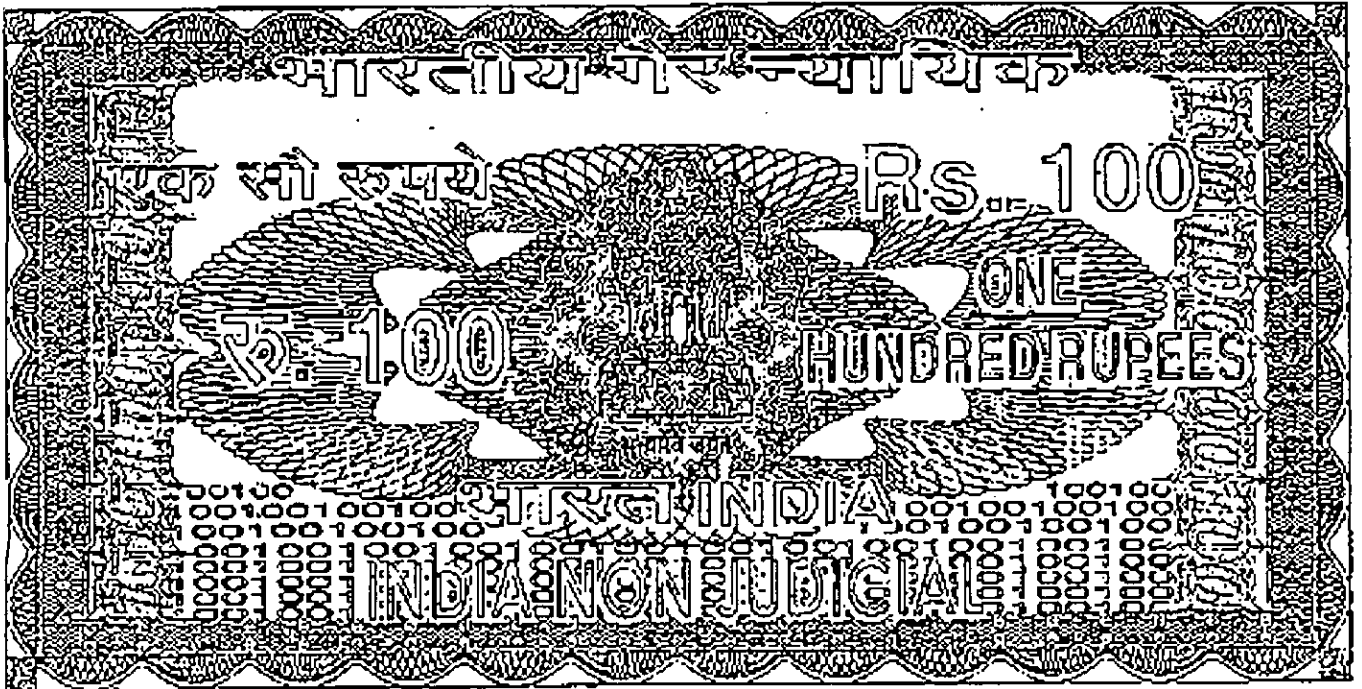
ദേശീയ പാത വികസനം - കരാർ കമ്പനിയ്ക്ക് സർവ്വകലാശാലയുടെ ഭൂമി

ചോദ്യം		ഉത്തരം	
ശ്രീ. അബ്ദുൽ ഹമീദ് പി		ഡോ. ആർ ബിന്ദു (ഉന്നതവിദ്യാഭ്യാസ-സാമൂഹ്യനീതി വകുപ്പ് മന്ത്രി)	
(എ)	ദേശീയ പാത വികസന പദ്ധതിയുടെ കരാർ കമ്പനിയായ കെ.എൻ.ആർ. കൺസ്ട്രക്ഷൻ കമ്പനിയ്ക്ക് കാലിക്കറ്റ് സർവ്വകലാശാലയുടെ ഉടമസ്ഥതയിലുള്ള സ്ഥലം ലീസിനോ മറ്റോ കൈമാറുന്നതിന് സർവ്വകലാശാലയും കമ്പനിയും തമ്മിലുള്ള എം.ഒ.യു. വിന്റെയും പ്രസ്തുത കമ്പനി സർവ്വകലാശാലയ്ക്ക് നൽകിയ അപേക്ഷയുടെയും പകർപ്പ് ലഭ്യമാക്കുമോ;	(എ)	ദേശീയ പാത വികസന പദ്ധതിയുടെ കരാർ കമ്പനിയായ കെ.എൻ.ആർ. കൺസ്ട്രക്ഷൻ കമ്പനിയും കാലിക്കറ്റ് സർവ്വകലാശാലയും തമ്മിൽ ഒപ്പു വച്ച എം.ഒ.യു.വിന്റെ പകർപ്പും, പ്രസ്തുത കമ്പനി സർവ്വകലാശാലയ്ക്ക് നൽകിയ 16.12.2021, 14.04.2022, 02.06.2022 തീയതികളിലെ അപേക്ഷയുടെ പകർപ്പുകളും അനുബന്ധമായി ചേർക്കുന്നു.
(ബി)	പ്രസ്തുത കമ്പനി ജീവനക്കാർക്ക് താമസ സൗകര്യത്തിനായി നൽകിയ സ്ഥലത്ത് കെമിക്കൽ ഉപയോഗിച്ച് നിർമ്മാണ പ്രവർത്തനങ്ങൾ നടത്തുന്നുവെന്ന് പരാതിപ്പെട്ട് റസിഡൻസ് അസോസിയേഷൻ വി.സി.- ക്ക് നൽകിയ പരാതിയിന്മേൽ സർവ്വകലാശാല സ്വീകരിച്ച നടപടി വ്യക്തമാക്കുമോ;	(ബി)	ടി സ്ഥലം സന്ദർശിച്ച്, ധാരണാപത്രത്തിലെ വ്യവസ്ഥകൾ ലംഘിച്ച് കൊണ്ടുള്ള എന്തെങ്കിലും പ്രവർത്തനങ്ങൾ KNR Constructions അവിടെ നടത്തുന്നുണ്ടോ എന്നത് സംബന്ധിച്ച് റിപ്പോർട്ട് നൽകുവാനും, ധാരണാപത്രത്തിലെ വ്യവസ്ഥകൾ പ്രകാരമുള്ള പ്രവർത്തനങ്ങൾ മാത്രമേ പ്രസ്തുത സ്ഥലത്ത് നടത്താവൂ എന്ന് KNR Constructions നെ അറിയിക്കുവാനും യൂണിവേഴ്സിറ്റി എഞ്ചിനീയറിംഗ് ചുമതലപ്പെടുത്തിയിട്ടുണ്ട്. യൂണിവേഴ്സിറ്റി എഞ്ചിനീയറിംഗിന്റെ റിപ്പോർട്ട് ലഭിച്ചിട്ടില്ല.
(സി)	പ്രസ്തുത പരാതിയിന്മേൽ സർവ്വകലാശാല നടത്തിയ അന്വേഷണ റിപ്പോർട്ടിന്റെ പകർപ്പ് ലഭ്യമാക്കുമോ?	(സി)	മേൽ വിഷയത്തിൽ അന്വേഷണം നടന്നുകൊണ്ടിരിക്കുകയാണ്.

സെക്ഷൻ ഓഫീസർ

1973

കേരളം



കേരളം കേരള KERALA

DP 866878


MEMORANDUM OF LICENSE

This Memorandum of License made and executed on this the 23rd June 2022, between

UNIVERSITY OF CALICUT which is an Autonomous body constituted as per the University of Calicut act 1975, situated at Thenhipalam village, Tirurangadi Taluk, Malappuram District, Kerala, represented by its Registrar Dr.Satheesh.E.K (Aadhaar No.9731 0002 5034) (PAN.AKUP56898Q) aged 52 Years, residing at Theertham, Parammal Road, Ramanattukara (P.O), Calicut, Kerala, empowered to sign and execute this memorandum of license as per the Resolution passed by the University Syndicate Implemented vide U.O.No.11972/2022/Admn. of University of Calicut dated 17.06.2022. Hereinafter referred to as the **LICENSOR** (which term shall mean and include all his representatives, successors-in-interest and assignees of the **FIRST PART**)

AND


LICENSOR
 University of Calicut


LICENSEE
 M/s KNR Constructions Limited

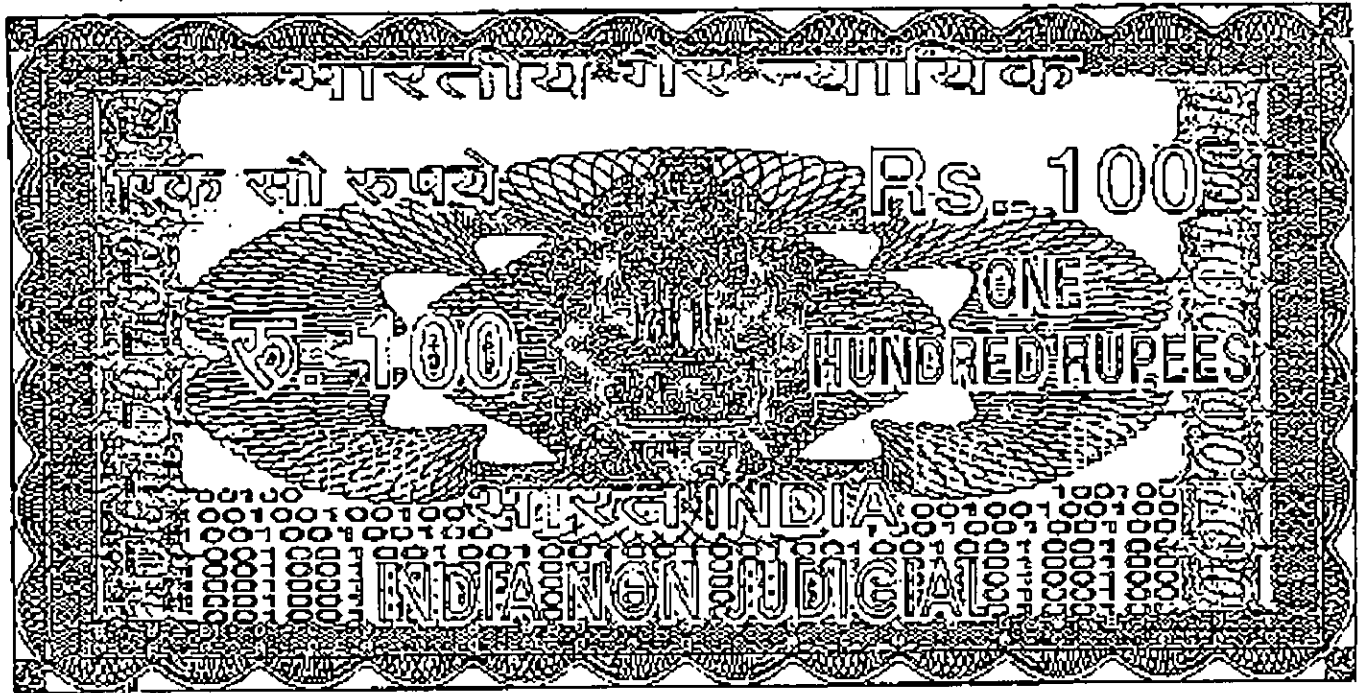


Date: 23-6-2022

Value: 100
 Name: K.N.R. Construction Ltd.
 JYOTHIR K
 200 STAGE LINDOR
 THIRUPALAM
 Calicut.







കേരളം കേരल KERALA

DP 866881

2

M/s KNR CONSTRUCTIONS LIMITED (Pan Card No. AAACK8316L), a Public Limited Company duly incorporated under the provisions of the Companies Act 1956, having its Registered office at KNR HOUSE, 3rd & 4th Floor, Plot No.114, Phase-1, Kavuri Hills, Jubilee Hills, Hyderabad - 500 033, represented by its Project Manager, Mr. M.Ramakrishna Reddy, aged 51 Years, now residing at Kohinoor, Tenhipalam, Tirurangadi, Malappuram - 673 636, Kerala. Hereinafter referred to as the LICENSEE (which term shall mean and include all its representatives, successors-in-interest and assignees of the SECOND PART).

[Signature]

LICENSOR
University of Calicut

[Signature]
LICENSEE

M/s KNR Constructions Limited



4027 23-6-2022

100
K.N.R. construction Ltd.

PROSE VENDOR

[Signature]

Kohinoor.

Page 2 of 7



Whereas the LICENSOR is the sole, absolute and exclusive owner and possessor of immovable properties comprised in following locations:

PROPERTY-1: Vacant Land at Block No.3, Sy. No. 105/3 of Thenhipalam Village, Kohinoor (In front of Ganapathy Temple) on the western side, adjoining to NH-66 on the Eastern Side, admeasuring about 2.50 Acres.

PROPERTY-2: Vacant Land at Block No.4, Sy. No. 18/1 of Thenhipalam Village, Kohinoor (in front of Institute of Engineering and Technology, on Airport Road) within a distance of 1 Km. from NH-66 admeasuring about 6.58 Acres.

WHEREAS, the LICENSEE has undertaken the work of Six Lanning/Widening of NH-66 from Ramanattukara to Start of Valanchery Bypass. In connection with the work undertaken by the LICENSEE needs to establish and operate the Concrete Batching Plant, Wet Mix Plant, RE Wall Block Casting Plant, HSD Consumer Outlet, Weigh Bridge, Stock the Material viz. Sand, Stone Aggregates, Stone dust, M-sand, Steel, Cement and other construction material and make temporary camps for workers/Staff, Digging of Borewells for water, establishment of site office, quality control laboratory, Canteen, and stores. The LICENSEE has approached the LICENSOR for the purpose of obtaining license, the property, described and included in the documents mentioned in the Schedule - A & B for the establishment of the above, and the LICENSOR has agreed to grant the license over the property for the above purpose and in the pursuance whereof both the parties here unto have mutually discussed and agreed upon the following terms and conditions reduced into writing as under.

IN PURSUANCE WHEREOF NOW THIS MEMORANDUM OF LICENSE WITNESSETH AS FOLLOWS:

1.The LICENSOR is the sole, absolute and exclusive owner of the properties mentioned in the Schedule - A & B and the LICENSOR is fully capable of granting License over the properties.

2.The duration of this License agreement shall be for a period of 03 [Three] years (i.e., from 23/06/2022 to 22/06/2025) or till the completion of the said Road Project i.e., Ramanattukara Junction to Start of Valanchery Bypass, in all respects, assigned to the LICENSEE by National Highways Authority of India, whichever is earlier.

In case the Road work undertaken by the LICENSEE under NHA prolongates beyond 22/06/2025, the license period shall be extended for a further period, not exceeding two years on the request of the LICENSEE or till the completion of the assigned road project of NH-66 in all respects, whichever is earlier.

3.Whereas, in connection to the purpose of licensing the property, as entire Consideration of License, the LICENSOR have requested the LICENSEE to construct new road formation in lieu of Cash / Financial consideration from NH-66 re-alignment at Chalnage Km. 263+854 (RHS) to the University Administrative Block, for a length of 437.41 mtr. in accordance to the Cross Section which is attested by both the parties enclosed to this Memorandum of License.

LICENSOR
University of Calicut

LICENSEE
M/s KNR Construction

[Signature]



4. The trees, electric lines, water lines etc., in the Proposed Road site from NH-66 to the University Administrative Block shall be removed by the LICENSOR.

5. Both the parties agree that, the properties mentioned in this Memorandum of License shall be handed over to the LICENSEE by the LICENSOR immediately after signing this Memorandum. The LICENSEE shall commence the construction activities of the proposed road from NH-66 to the Administrative Block of the University, after taking over of possession of the land, after removal of trees and utilities in the proposed road alignment by the LICENSEE and shall complete the construction within 06 months. Notwithstanding anything contained in this Memorandum, the obligation of the LICENSEE to have the proposed road constructed for the LICENSOR shall be completed within the stipulated time frame, except for any unavoidable reasons which may be accepted by the LICENSOR, otherwise the LICENSEE shall pay the rent to the LICENSOR as fixed by the University.

6. The property shall be used by the LICENSEE exclusively for the purpose of operating the Concrete Batching Plant, Wet Mix Plant, RE Wall Block Casting Plant, HSD Consumer Outlet, Weigh Bridge, Stock the Material viz. Sand, Stone Aggregates, Stone dust, M-sand, Steel, Cement and other construction material and make temporary camps for workers/Staff, Digging of Borewells for water, (only for the purpose other than for construction) establishment of site office, Canteen, quality control laboratory and stores as required.

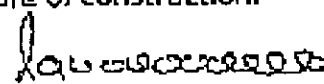
7. The LICENSOR shall issue/execute such letters of declarations or consents as may be required by such relevant authorities for the purpose of enabling the LICENSEE to establish and operate the Concrete Batching Plant, Wet Mix Plant, RE Wall Block Casting Plant, HSD consumer outlet, weigh bridge and obtaining the Electricity supply from KSEB, construction of temporary labour sheds, Digging of Borewells for water, (only for the purpose other than for construction) Quality Control Laboratory, Stores Department, Site Office, Canteen, quarters for workers/staff and stacking the material like sand, aggregates, steel and cement and also drilling of one number borewell (Operational) for water required, for the above establishments in each property respectively.

8. The LICENSEE agrees to pay the respective charges towards electricity and water as per actuals for the period of license, to the concerned Departments.

9. The LICENSEE is permitted only to make such temporary constructions as may be incidental and necessary for the purpose of establishing and operating the Concrete Batching Plant, Wet Mix Plant, RE Wall Block Casting, HSD consumer outlet, weigh bridge, Construction of temporary labour sheds, quarters for workers/staff, Digging of Borewell for Water, (only for the purpose other than for construction) Quality Control Laboratory, Stores Department, Site Office, Canteen, and material stock yard and a Controlling office.

10. In any event the LICENSEE shall not make any permanent constructions in the scheduled property for any purpose whatsoever and whatever constructions the LICENSEE made therein shall be treated as temporary constructions only irrespective of its nature of construction.


LICENSOR
University of Calicut


LICENSEE
M/s KNR Constructions



11. The LICENSEE shall be responsible in keeping the Scheduled properties in good and usable condition in every sense. The LICENSEE shall give strict instructions to their agents and the persons/labourers accommodated in the Scheduled property with regard to the same.

12. All licences / permissions / approvals from the competent and other statutory authorities / departments for the purpose of establishing and operating the concrete batching plant, wet mix plant, HSD consumer outlet, weigh bridge, Construction of temporary labour sheds, accommodation of workers/labours/staff/migrants, quarters for workers/staff, Digging of Borewell for Water and material stock yard, Quality Control Laboratory, Stores Department, Canteen and a Controlling office, shall be applied and obtained by the LICENSEE at their own costs and expenses. And the LICENSEE shall pay applicable taxes payable to concerned departments like Local Bodies and other Government Departments. However, Land Revenue Tax, if any, for the scheduled property should be paid by LICENSOR.

13. The LICENSEE or their agents shall not cause any disturbance or nuisance to the general public by operation of their establishments or plying of the vehicles. However, the LICENSEE shall be at liberty to conduct the operation of their establishments and plying of the heavy vehicles without causing any disturbance and in such an event the LICENSEE shall keep the LICENSOR duly absolved of any action or proceedings by any authorities or in any court. The protest from public regarding the pollution and other activities if any has to be delt by the LICENSEE themselves.

14. The LICENSEE shall not cut any trees from the properties or remove any pipelines, cables, electric lines etc., from the properties without the Consent of the LICENSOR.

15. The LICENSEE shall ensure that the scheduled properties are properly secured and appoint sufficient Security guards for the said purpose.

16. The LICENSEE hereby specifically agrees that they shall not sublet or permit any other person / body to use or occupy the scheduled property either in whole or in part, other than their employees / authorized agents, under any circumstances.

17. The LICENSEE shall clean and level the land, remove all temporary structures at their costs and expenses before surrendering vacant possession.

18. It is agreed between both the parties that they have no authority to terminate this Memorandum of License until the licensed period for 03 years or during the extended period, till completion of the said project assigned by the NHAI to LICENSEE, after fulfilling the point No.3 by the LICENSEE i.e., after completion of the new road formation from NH-66 realignment to the University Administrative Block.

19. All notices by LICENSEE to LICENSOR or vice versa shall be sent to the respective addresses above by e-mail.


LICENSOR
University of Calicut


LICENSEE

M/S KNR Constructions Limited



20. Any dispute arising in connection with this Memorandum of License shall be decided by the court of competent jurisdiction in Malappuram District Kerala State only.


21. On completion of the above License period / extended period of License, the LICENSEE shall remove all the structure erected there in and give vacant surrender of the land described in the Schedule A & B attached to this Memorandum of License. In case the LICENSEE fails to do so, the LICENSOR shall demolish / dismantle the structures erected there in and take possession of the land and the expenses there to will be recovered from the LICENSEE.

This Memorandum of License is executed on Rs. 200/- Non Judicial Stamp Papers in 02 sets and either party shall keep one each.

Schedule - A of Property

1	District	Malappuram		
2	Taluk	Thirurangadi		
3	Village	Thenhipalam		
4	Block No.	3		
5	Re. Sy. No.	105/3		TOTAL AREA
6	Extent in Cents	250		250
7	Description of the Property	All that piece and parcel of property of vacant land belonged to University of Calicut, situated at above location.		
8	Boundaries	East	NH-66	
		North	University Land	
		West	Road, University Land	
		South	Road	


LICENSOR
 University of Calicut


LICENSEE
 M/s KNR Constructions Limited




Schedule - B of Property

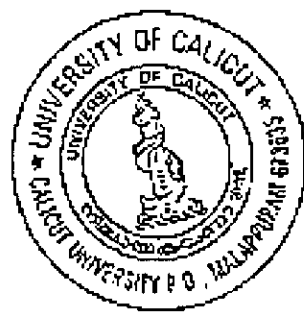
1	District	Malappuram		
2	Taluk	Thirurangadi		
3	Village	Thenhipalam		
4	Block No.	4		
5	Re. Sy. No.	18/1		TOTAL AREA
6	Extent in Cents	658		658
7	Description of the Property	All that piece and parcel of property of vacant land belonged to University of Calicut, situated at above location.		
8	Boundaries	East	Private Property	
		North	Road, Private Land	
		West	Road	
		South	PWD Road	


LICENSOR
 University of Calicut
REGISTRAR

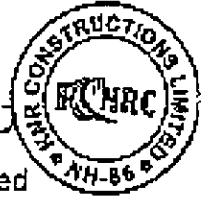

LICENSEE
 M/s KNR Constructions Limited


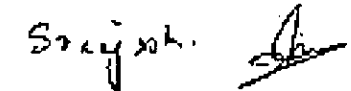
In witness whereof both the parties hereto have set their hands unto this indenture on the day month and year first aforementioned in the presence of the following.

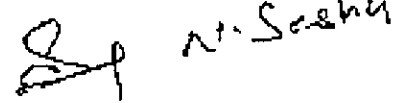
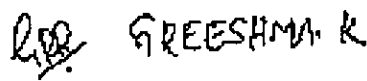

LICENSOR
 University of Calicut
REGISTRAR

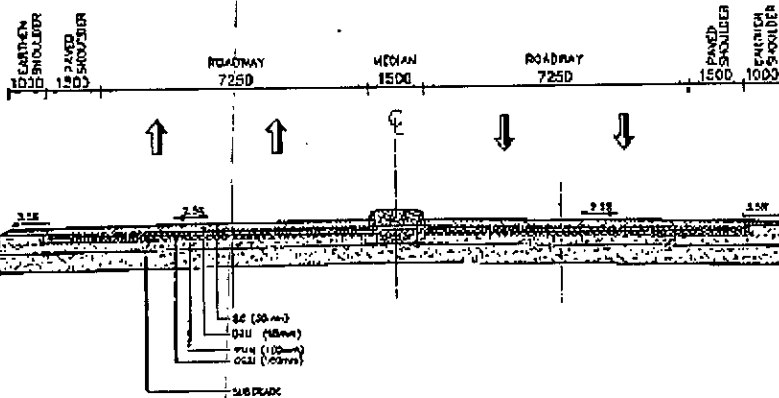



LICENSEE
 M/s KNR Constructions Limited



WITNESSES
 1) 
 2) 

1) 
 2) 



TYPICAL CROSS SECTION : FOR CALICUT UNIVERSITY

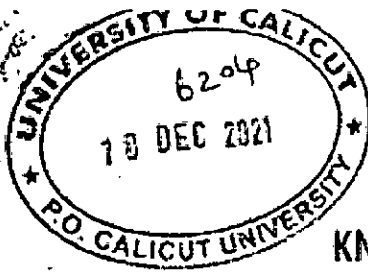
[Signature]
23/06/2022

REGISTRAR



[Signature]





KNR Constructions Limited

Ref: KNRCL/NH-66/RAM-VAL-KAP/GEN/2021-22/020

Date: 16.12.2021.

To
The Registrar,
Calicut University,
Kozhikode, Kerala

Dear Sir,

Project: "Six laning of Ramanattukara Junction to start of Valanchery bypass section of NH - 66 (old NH-17) from Design Ch. 258+818 (Ex. km 27.840 of Kozhikode bypass) to Design Chainage 298+500 (Ex. km 304.250)" and "Six laning from start of Valanchery bypass to Kappirikkad section of NH - 66 (old NH-17) from Design Ch. 298+500 (Ex. km 304.250) to Design Chainage 335+850 (Ex. km 349.260)" in the state of Kerala on Hybrid Annuity Mode under Bharatmata Pariyojana.

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Sub: Request for permission for Utilization of Vacant land at Calicut University for in Construction Activities - Reg.

It is to bring to your kind notice that we have been awarded the above said Six Laning road Projects by National Highways Authority of India and whereas as a part in the course of road widening execution, numerous concrete structures requires to be constructed and for such purpose it is essential to undertake activities such as casting of Reinforced Earth Blocks / planks, Precast PSC Girders, Precast Planks, stocking the construction materials, establishment and operation of concrete batching plants.

18/12/21

Subsequently, to carry out the day to day activities suitable lands are required and during the exploration, we have identified one such land belonging to your esteemed University which is vacant and will be feasible in facilitation for Construction Activities viz: precast of planks, girders, reinforced earth wall Blocks, stocking of construction materials, establishment and operation of concrete batching plant.

In this context, we request you to kindly issue permission for utilization of vacant land for Project Development for a period of 03 (Three) Years.

20/12/21

Anticipating all co-operation and assistance from your Esteemed University for successful and timely completion of the above National Project.

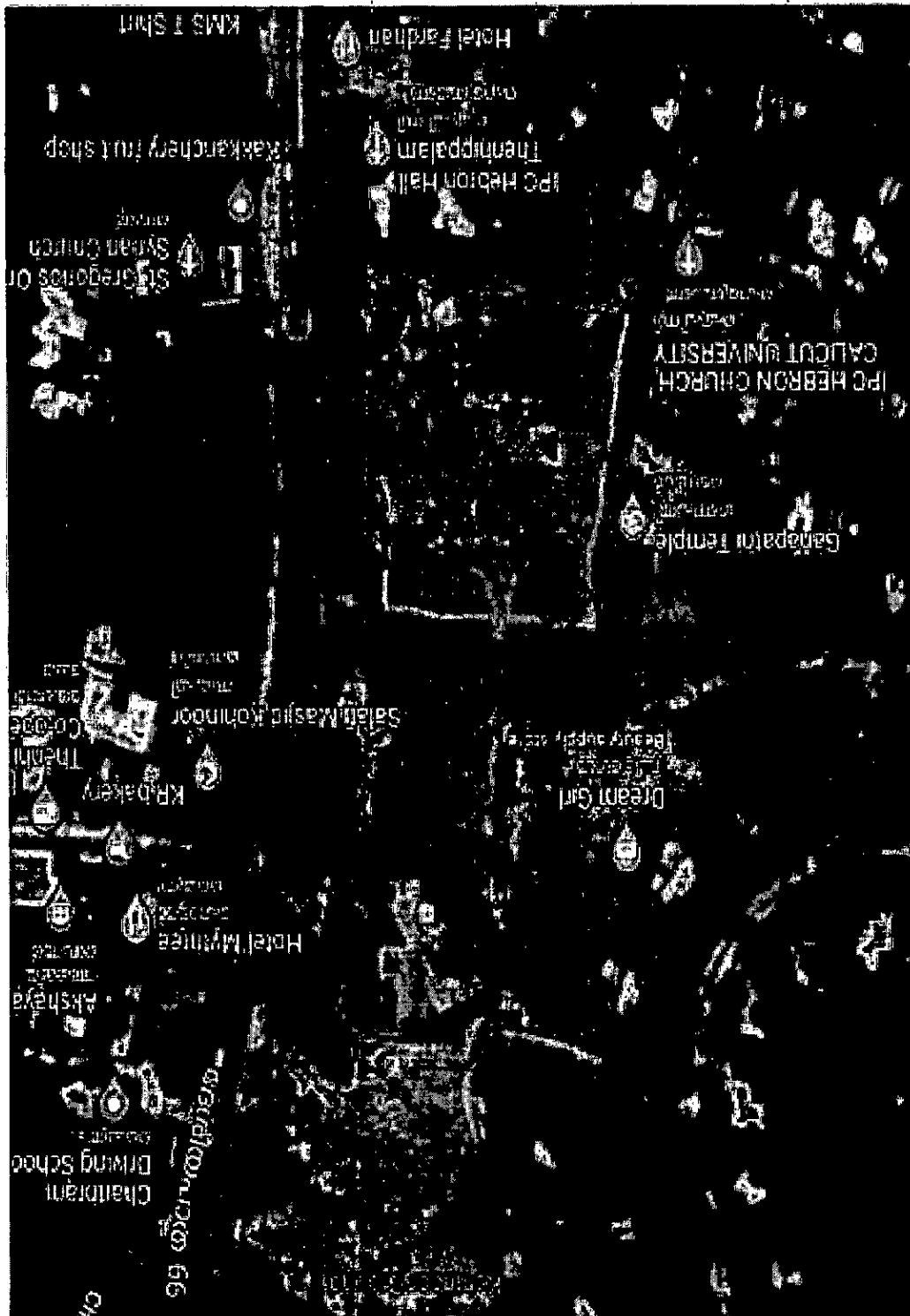
Thanking you,

Yours faithfully,
For KNR Constructions Limited

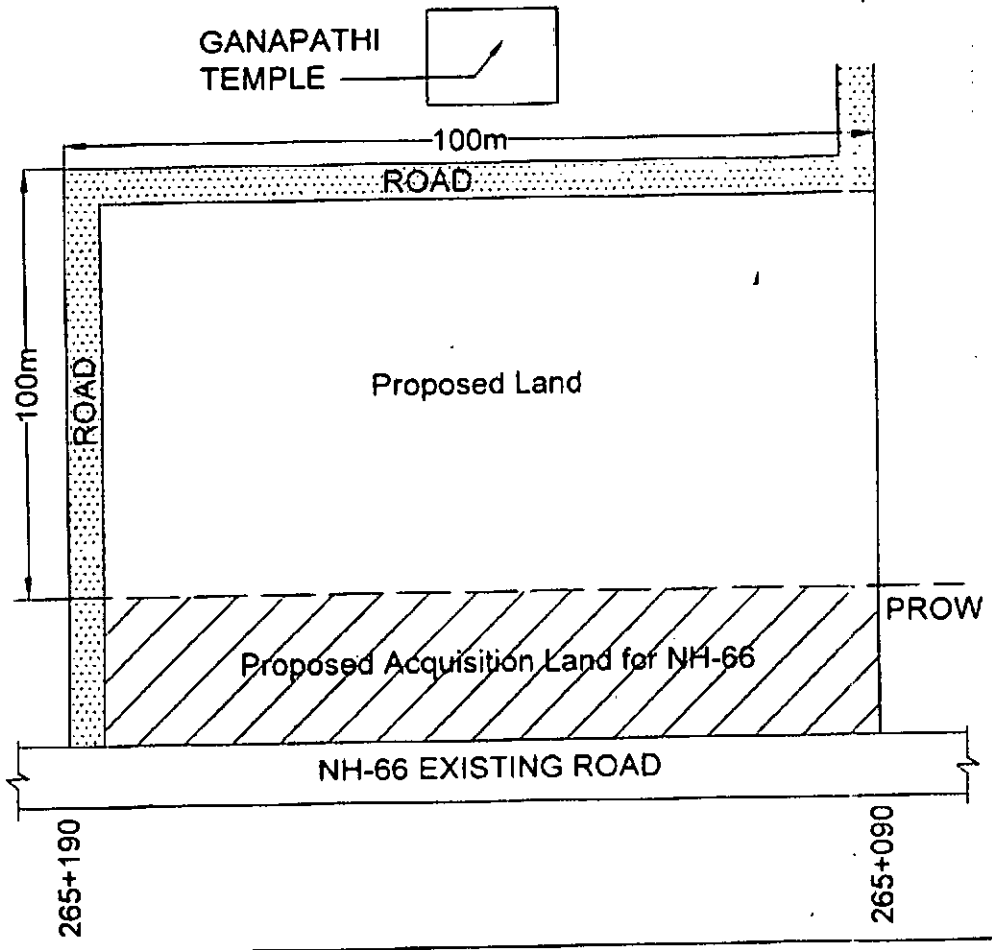
B. Phani Kumar
B. Phani Kumar
Sr. Project Manager



Project Office - Ponvanchina, Marakkara Village, Randathani Post - 676 516, Thirur Taluk, Malappuram District, Kerala
e-mail: karelibttakkal@knrcd.com
Registered Office - 'KNR House', 3rd & 4th Floor, Plot No. 13A, Phase 1, Lavuru Hills, Hyderabad - 500033, Telangana
Phone: +91 40 40268750, 40268767 / 67, Fax: +91 40 40268740
e-mail: info@knrcd.com, web: www.knrcd.com



SKETCH SHOWING THE PROPOSED LAND REQUIRED FOR LEASE



To
The Registrar
Calicut University



KNR Constructions Limited

Ref: KNRCL/NH-66/RAM-VAL/GEN/2021-22/053

Date: 14.04.2022.

To
The Registrar,
Calicut University,
Kozhikode, Kerala

Dear Sir,

Project: "Six laning of Ramanattukara Junction to start of Valanchery bypass section of NH - 66 (old NH-17) from Design Ch. 258+818 (Ex. km 27.840 of Kozhikode bypass) to Design Chainage 298+500 (Ex. km 304.250)" in the state of Kerala on Hybrid Annuity Mode under Bharatmala Pariyojana.

Sub: Request for permission for Utilization of Vacant land of Calicut University at Kohinoor for Construction Activities - Reg.

Ref: 1) KNRCL/NH-66/RAM-VAL-KAP/GEN/2021-22/020, dated 16.12.2021
2) Your Letter No.17657/PLD-B-ASST-1/2021/Admn, dated 14.01.2022

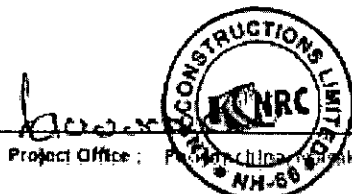
It is to bring to your kind notice that we have been awarded the above said Six Laning road Project by National Highways Authority of India and whereas as a part in the course of road widening execution, numerous concrete structures requires to be constructed and for such purpose it is essential to undertake activities such as casting of Reinforced Earth Blocks / planks, Precast PSC Girders, Precast Planks, stocking the construction materials, establishment and operation of concrete batching plants.

Subsequently, to carry out the day to day activities, we have approached your good self for allocation of land admeasuring 2.50 Acres approximately and received a letter from you in this regard granting the permission for using the vacant land of university at Kohinoor (in front of Ganapathi Temple) for a period of 3 years for facilitating construction activities, subject to the discussions with us in respect of rent and tenure and entering to an agreement.

And also, we have identified another vacant land of 6.50 Acres approximately of University of Calicut at Calicut Parambu which is feasible for construction activities relating to NH-66.

Based on the subsequent discussions had with you, we hereby offer our quote against utilization of land for a period of 3 years as below which has two proposals.

Contd...2



Project Office : Pottan Chira, Kottakkara Village, Randathani Post - 676 510, Thiruv Taluk, Malappuram District, Kerala.
e-mail: knrc@kottakkal@knrc.com

Registered Office : 'KNR House', 3rd & 4th Floor, Plot No. 114, Phase-I, Kavuri Hills, Hyderabad - 500 033, Telangana
Phone: +91 40 40268759, 40268761 / 62, Fax: +91 40 40268760
e-mail: info@knrc.com, web: www.knrc.com

Proposal No.1: Relaying of road with Bituminous Concrete from NH-66 to University Administrative Block - The required expenditure what so ever shall be borne by us including Men, Material and Machinery.

Proposal No.2: We offer to pay Rs.15,000/- (Rupees Fifteen Thousand only) per Acre per month against land rent for the entire area at the two locations i.e., Land in front of Ganapathy Temple and Land at Calicut Parambu, which was requested.

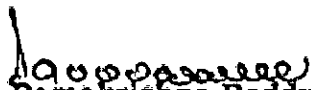
Kindly inform us about your acceptance in respect of above two proposals, so that we can enter an agreement in this regard.

Anticipating a favourable reply at the earliest.

Thanking you,

Yours faithfully,

For **KNR Constructions Limited**


M. Ramakrishna Reddy
Project Manager



UNIVERSITY OF CALICUT

PLD-B

No 17657/PLD-B-ASST-1/2021/Admn

Calicut University P.O.

Dated: 14/01/2022

From

The Registrar

To

The Senior Project Manager,

KNR Constructions Ltd.

Poovanchina, Marakkara Village, Randathani, Thirur,

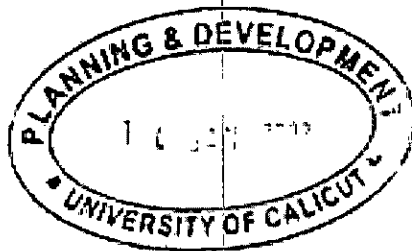
Malappuram District, 676 510.

Sir,

Sub: Permission to use the vacant land of University at Kohinor (in front of Ganapathy Temple) for a period of 3 years for facilitating construction activities - Reg.

Ref: University Order No.985/2022/Admn dated 14/01/2022.

I am forwarding herewith a copy of the University Order No. 985/2022/Admn dated 14/01/2022, for information and further necessary action.



Yours faithfully,

[Signature]
Deputy Registrar

(For The Registrar)

Encl: University Order No. 985/2022/Admn dated 14/01/2022.



UNIVERSITY OF CALICUT

Abstract

Planning & Development Branch - permission to use the vacant land of University at Kohinoor (in front of Ganapathy Temple) for a period of 3 years for facilitating construction activities, for the firm KNR Constructions Ltd who has been awarded the Six Laning road Projects by National Highway Authority of India - Syndicate resolution implemented - Orders issued

U O No 085/2022/Admn

PLD-B

Dated, Calicut University.P.O, 14.01.2022

- 1. Letter No KNRCL/NH-66/RAM-VAL-KAP/GEN/2021 -22 /020 dated:16.12.2021
- 2. Extract of the urgent item No. 2021 1269* of the minutes of the meeting of the Syndicate held on 30/12/2021

ORDER

As per paper read first, the Senior Project Manager, KNR Constructions Ltd (who has been awarded the Six Laning road Projects by National Highway Authority of India) has requested to grant permission for utilization of vacant Land of University at Kohinoor (in front of Ganapathy Temple) for Project Development for a period of 3 (Three) years to carry out the day to day activities that are feasible in facilitation for Construction Activities such as casting of Reinforced Earth Blocks / planks, Precast PSC Girders, Precast Planks, stocking the construction materials, establishment and operation of concrete batching plants.

As per paper read second, Syndicate considered the matter of granting permission to use the vacant land of University at Kohinoor (in front of Ganapathy Temple) for a period of 3 years for facilitating construction activities for the firm KNR constructions Ltd, related to NH widening and resolved to grant permission by discussing directly with the company and entering into an agreement regarding the land rent , tenure period etc. (പ്രത്യേകമായി അഭ്യർത്ഥിച്ച കമ്പനിയുമായി നേരിട്ട് ചർച്ച നടത്തി, നിർമ്മാണവുമായി ബന്ധിതമായ നിർമ്മാണ പ്രവർത്തനങ്ങൾക്ക് അനുമതി നൽകാൻ തീരുമാനിച്ചു).

The Vice Chancellor has accorded sanction to implement the above resolution of the Syndicate and to entrust the University Engineer to take further action in this regard.

The resolution of the Syndicate, vide paper read second is, therefore, implemented
Orders are issued accordingly.

Aseefa K

Assistant Registrar

To

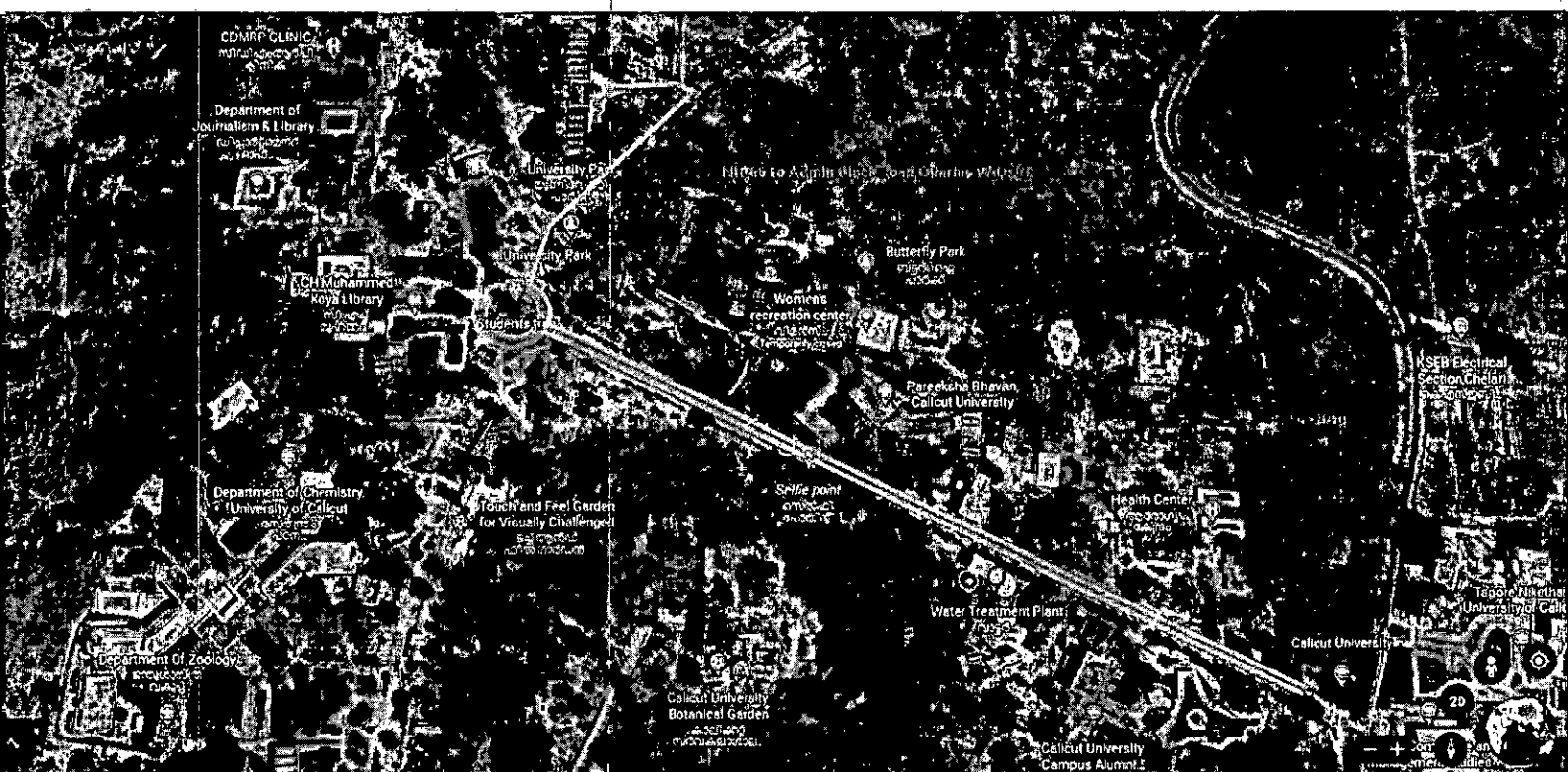
- 1. Senior Project Manager, KNR Constructions Ltd.,
- 2. University Engineer

Copy to: EE(Civil)/HD/PA to PVC/PA to Registrar/Finance/JD-KSAD

Forwarded / By Order

Nstka
Section Officer









KNR Constructions Limited

Ref: KNRCL/NH-66/RAM-VAL/GEN/2021-22/104

Date: 02.06.2022.

To
The Registrar,
Calicut University,
Kozhikode, Kerala

Dear Sir,

Project: "Six laning of Ramanattukara Junction to start of Valanchery bypass section of NH – 66 (old NH-17) from Design Ch. 258+818 (Ex: km 27.840 of Kozhikode bypass) to Design Chainage 298+500 (Ex: km 304.250)" in the state of Kerala on Hybrid Annuity Mode under Bharatmala Pariyojana.

Sub: Request for permission for Utilization of Vacant land of Calicut University at Kohnoor for Construction Activities – Submission of Revised Details - Reg.

Ref: 1) Your Letter No.17657/PLD-B-ASST-1/2019/Admin, dated 01.06.2022

With reference to the letter received cited above, we are pleased to furnish the details required by you. The revised detailed estimate as per the Kerala Standard Schedule of Rates is furnished along with relevant drawings for your record please.

Thanking you,

Yours faithfully,

For **KNR Constructions Limited**


M. Ramakrishna Reddy
Project Manager



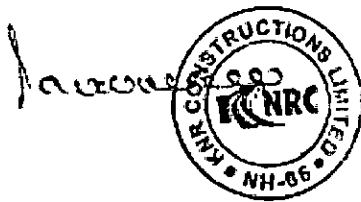
Encl: Cost Estimate & Drawings.

Project Office : Kohnoor, Thanthupalam, Thrangood - 571 636, Malappuram District, Kerala.
e-mail : kncokottakkal@knrcd.com

Registered Office : 'K N R House' 3rd & 4th Floor, Plot No. 114, Phase-I, Kaveri Hills, Hyderabad - 500 033, Telangana.
Phone: +91 40 40268759, 40268761 / 62, Fax: +91 40 40268760
e-mail : info@knrcd.com, web : www.knrcd.com

Cost Estimate of the Proposed Calicut University Road from NH to Admin Block RHS
As per Kerala SOR

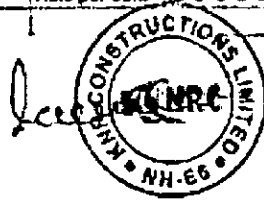
S.No	Item	Nos	Length	Width	Depth	Quantity	Rate	Amount
1	BC	2.00	430.00	9.25	0.03	238.65	14,456.0	34,49,924.40
2	OSM	2.00	430.00	9.25	0.05	397.75	12,521.0	49,80,227.75
3	Track coat	2.00	430.00	9.25		7,955.00	17.0	1,35,235.00
4	Prime Coat	2.00	430.00	9.25		7,955.00	59.0	4,69,345.00
5	W/M	2.00	430.00	9.25	0.10	795.50	4,143.9	32,96,432.65
6	GSB	2.00	430.00	11.36	0.10	976.95	3,730.0	36,44,060.80
7	SG	2.00	430.00	12.06	0.50	5,189.80	454.0	23,54,353.20
8	Embankment	2.00	200.00	14.06	1.00	5,624.00	445.0	25,02,680.00
9	Excavation	2.00	230.00	14.06	1.50	9,701.40	111.0	10,76,855.40
10	Masdn	2.00	430.00	0.67	0.35	291.67	454.0	91,558.18
11	Kerb	2.00	430.00			866.00	477.4	4,10,564.00
12	Road Marking	2.00	430.00	0.35		301.00	382.0	1,14,982.00
13	Shoulder	2.00	430.00	1.38	0.40	467.84	454.0	2,12,398.35
14	Pipe Culvert (1.2 Dia)	2.00				2.00	7,72,433.0	15,44,866.00
	Total Amount							2,42,83,463.85



Sr No	Reference to MORT&H Specification	Description	Unit	Quantity	Rate (Rs.)	Amount	Remarks/ Input ref.
				For Large Project		Large Project	
5.3	507	8 Bituminous Concrete Grading 2					
		Providing and laying bituminous concrete with higher capacity batch type hot mix plant using crushed					
		Unit = cum					
		Taking output =	191	cum	2.36	2.42	
		a) Labour					
		Male	day	0.440	841.835	370.41	L-12
		Mazdoor	day	0.000	761.335	4,568.01	L-13
		Mazdoor skilled	day	5.000	761.335	3,806.68	L-15
		b) Machinery					
		Hot Mix Plant					
		(i) HMP 200 TPH	hour	3.005	16134.977	48,466.68	P&M-18001
		(ii) HMP 160 TPH	hour		11997.976		P&M-18002
		(iii) HMP 120 TPH	hour		9230.902		P&M-18003
		Mechanical broom (2.1m sweeping width)	hour	1.624	1166.044	1,897.08	P&M-23001
		Air compressor 250 cfm	hour	1.624	677.211	1,099.88	P&M-15001
		Paver finisher hydrostatic with sensor control compatible with the hot mix plant					
		(i) Paver (240HP)	hour	3.005	10180.154	30,592.04	P&M-29001
		(ii) Paver (240HP)	hour		10180.154		P&M-29001
		(iii) Paver (170HP)	hour		8069.804		P&M-29002
		Electric generator					
		(i) 500 KVA	hour	3.005	8044.256	28,577.58	P&M-22002
		(ii) 400 KVA	hour		7133.265		P&M-22003
		(iii) 250 KVA	hour		5028.723		P&M-22004
		Front end loader for feeding the plant					
		(i) 3.1 Cum Capacity	hour	4.993	4718.450	23,561.39	P&M-5001
		(ii) 2.1 Cum Capacity	hour		2911.427		P&M-5002
		(iii) 1 Cum Capacity	hour		1887.642		P&M-5003
		Tipper					
		For Transportation					
		(i) 18 cum capacity	Lkm	450.76 x L1	8.280	78,378.15	P&M-72002
		(ii) 14 cum capacity	Lkm		9.400		P&M-73002
		(iii) 10 cum capacity	Lkm		11.610		P&M-74002
		Tipper for loading & unloading time					
		(i) 18 cum capacity	hour	6.010	3178.858	19,105.24	P&M-6001
		(ii) 14 cum capacity	hour		2818.817		P&M-6002
		(iii) 10 cum capacity	hour		2507.416		P&M-6003
		Smooth steel wheeled tandem roller for static and vibratory passes	hour	16.902	2277.048	38,486.63	P&M-8001
		Pneumatic Tyre roller	hour	2.404	2824.605	6,790.50	P&M-10001
		c) Material					
		i) Bitumen @ 5.4 per cent of mix	tonne	24.341	61343.800	14,93,173.35	M-074
		ii) Aggregate					
		Total weight of mix =	450.76	tonnes			
		Weight of bitumen =	24.34	tonnes			
		Weight of aggregate =	425.42	tonnes			
		Taking density of aggregate = 1.5 ton/cum					
		Grading - 8-13 mm (Nominal Size)					
		13.2 - 10 mm 30 per cent	cum	99.498	1726.740	1,72,035.75	M-043
		10 - 5 mm 25 per cent	cum	85.284	1778.740	1,46,331.56	M-039
		5 mm and below 43 per cent	cum	113.712	1778.740	2,02,253.59	M-029
		Filler @ 2 per cent of weight of aggregates	cum	8.528	6538.248	56,613.50	M-081
		* Any one of the alternative may be adopted as per approved design					
		* Grading - 1-19 mm (Nominal Size)					
		d) Overhead charges		@ 8% on (a+b+c)		1,85,926.19	
		e) Contractor's profit		@ 10% on (a+b+c+d)		2,51,090.36	
		Cost for 191 cum = a+b+c+d+e				27,61,003.89	
		Rate per cum = (a+b+c+d+e)/191				14,458.62	
						Say, 14,458.00	



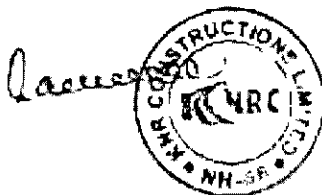
Sr No	Reference to MORT&H Specification	Description	Unit	Quantity	Rate (Rs.)	Amount		Remarks/ Input ref.
				For Large Project		Large Project		
5.4	805	B Dense Graded Bituminous Macadam Grading 2						
		Providing and laying dense graded bituminous macadam with higher capacity batch type HMP using						
		Unit = cum						
		Taking output =	195	cum	2.31	2.43		
		a) Labour						
		Male	day	0.440	841.835	370.41		L-12
		Mazdoor	day	6.000	761.335	4,568.01		L-13
		Mazdoor skilled	day	5.000	761.335	3,806.68		L-15
		b) Machinery						
		Hot Mix Plant						
		(i) HMP 200 TPH	hour	3.000	16134.977	48,453.34		P&M-18001
		(ii) HMP 180 TPH	hour		11397.976			P&M-18002
		(iii) HMP 120 TPH	hour		8230.982			P&M-18003
		Mechanical broom (2.1m sweeping width)	hour	0.653	1168.044	774.72		P&M-23001
		Air compressor 250 cfm	hour	0.683	677.211	449.17		P&M-15001
		Paver finisher hydrostatic with sensor control compatible with the hot mix plant						
		(i) Paver (240HP)	hour	3.000	10180.154	30,571.00		P&M-29001
		(ii) Paver (240HP)	hour		10180.154			P&M-29001
		(iii) Paver (174HP)	hour		8059.804			P&M-29002
		Electric generator						
		(i) 500 KVA	hour	3.000	8844.255	26,559.30		P&M-22002
		(ii) 400 KVA	hour		7133.285			P&M-22003
		(iii) 250 KVA	hour		5028.723			P&M-22004
		Front end loader for feeding the plant						
		(i) 3.1 Cum Capacity	hour	5.112	4718.480	24,118.73		P&M-5001
		(ii) 2.1 Cum Capacity	hour		2811.427			P&M-5002
		(iii) 1 Cum Capacity	hour		1937.642			P&M-5003
		Tipper						
		For Transportation						
		(i) 18 cum capacity	Ltrn	450.45 x L1	8.280	78,324.25		P&M-7002
		(ii) 14 cum capacity	Ltrn		9.400			P&M-73002
		(iii) 10 cum capacity	Ltrn		11.610			P&M-76002
		Tipper for loading & unloading time						
		(i) 18 cum capacity	hour	6.006	3178.638	19,092.10		P&M-6001
		(ii) 14 cum capacity	hour		2818.617			P&M-6002
		(iii) 10 cum capacity	hour		2507.418			P&M-6003
		Smooth steel wheeled tandem roller for static and vibratory passes	hour	9.653	2277.048	22,003.53		P&M-8001
		c) Material						
	4.8	i) Bitumen @ 4.5 per cent of mix	tonne	20.270	61343.860	12,43,455.36		M-074
		ii) Aggregate						
		Total weight of mix =	450.45	tonnes				
		Weight of bitumen =	20.27	tonnes				
		Weight of aggregate =	430.18	tonnes				
		Taking density of aggregate = 1.5 ton/cum						
		Grading - II19 mm (Nominal Size)						
		35 25 - 10 mm 30 per cent	cum	85.036	1728.740	1,48,733.79		M-045
		20 10 - 5 mm 28 per cent	cum	80.300	1778.740	1,42,833.21		M-039
		45 5 mm and below 40 per cent	cum	114.715	1778.740	2,04,047.45		M-029
		Filler @ 2 per cent of weight of aggregates	cum	8.934	6839.248	57,112.80		M-081
		* Any one of the alternative may be adopted as per approved design						
		Grading - II19 mm (Nominal Size)						
		d) Overhead charges		@ 6% on (a+b+c)		1,64,421.91		
		e) Contractor's profit		@ 10% on (a+b+c+d)		2,21,989.55		
		Cost for 195 cum = a+b+c+d+e				24,41,865.35		
		Rate per cum = (a+b+c+d+e)/195				12,521.36		
					Say,	12,521.00		



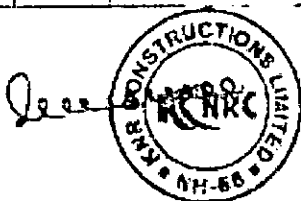
Sr No	Reference to MORT&M Specification	Description	Unit	Quantity	Rate (Rs.)	Amount	Remarks/ Input ref.
				For Large Project		Large Project	
5.1	502	A Prime Coat over WBM/WBM					
		(i) Providing and applying primer coat with SS1 grade bitumen emulsion on prepared surface of granular					
		Unit = sqm					
		Taking output = 7000 sqm					
		a) Labour					
		Mala	day	0.080	841.835	67.35	L-12
		Mazdoor	day	2.000	761.335	1,522.67	L-13
		b) Machinery					
		Mechanical broom (2.1m sweeping width)	hour	2.083	1168.044	2,433.42	P&M-23001
		Air compressor 250 cfm	hour	2.083	677.211	1,410.86	P&M-15001
		Bitumen pressure distributor (Spraying width 4.5 m)	hour	1.944	1906.608	3,707.29	P&M-24001
		Water tanker (speed @ 20km/hr and return speed @ 30 km/hr and spreading speed @ 2.5 km/hr)					
		(i) 18 KL capacity	hour	2.144	1666.580	3,573.59	P&M-11001
		(ii) 12 KL capacity	hour		1470.184		P&M-11002
		(iii) 6 KL capacity	hour		1119.423		P&M-11003
		c) Material					
		SS1 grade Bitumen emulsion @ 0.85 kg per sqm	tonne	5.950	58071.260	3,33,627.57	M-077
		Cost of water	KL	10.500	200.00	2,100.00	M-191
		d) Overhead charges		@ 8% on (a+b+c)		27,676.42	
		e) Contractor's profit		@ 10% on (a+b+c+d)		37,631.82	
		Cost for 7000 Sqm = a+b+c+d+e				4,13,949.83	
		Rate per Sqm = (a+b+c+d+e)/7000				59.14	
						Say, 59.08	

Note: Bitumen primer has been provided @ 0.85 kg per sqm as per clause 502.8. Payment shall be made with adjustment, plus or minus, for the variation between the quantity and the actual quantity approved by the Engineer.

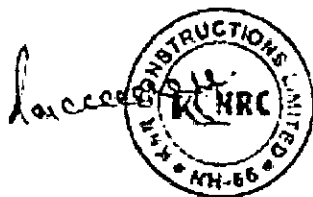
5.2	503	(i) Tack Coat on Bituminous surfaces					
		Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of					
		Unit = sqm					
		Taking output = 7000 sqm					
		a) Labour					
		Mala	day	0.080	841.835	67.35	L-12
		Mazdoor	day	2.000	761.335	1,522.67	L-13
		b) Machinery					
		Mechanical broom (2.1m sweeping width)	hour	2.083	1168.044	2,433.42	P&M-23001
		Air compressor 250 cfm	hour	2.083	677.211	1,410.86	P&M-15001
		Bitumen pressure distributor (Spraying width 4.5 m)	hour	1.944	1906.608	3,707.29	P&M-24001
		c) Material					
		Bitumen emulsion @ 0.25 kg per sqm	tonne	1.750	52246.860	91,432.01	M-077
		d) Overhead charges		@ 8% on (a+b+c)		8,045.80	
		e) Contractor's profit		@ 10% on (a+b+c+d)		10,881.96	
		Cost for 7000 Sqm = a+b+c+d+e				1,19,481.43	
		Rate per Sqm = (a+b+c+d+e)/7000				17.07	
						Say, 17.00	



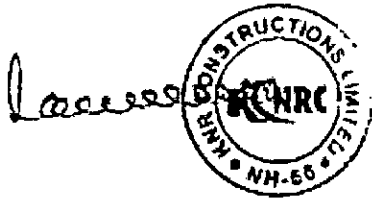
Sr No	Reference to MORT&H Specification	Description	Unit	Quantity			Rate (Rs.)	Large Project
				For Large Project	For Medium Project	For Small Project		
4A	443	Cement Treated Crushed Stone Sub base						
	A	Plant Mix Method						
		Construction of granular sub-base by providing graded material, mixing with cement in a mechanical mix plant of OMC, carriage of mixed material to work site, spreading in uniform layers with Mechanical Paver on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401						
		Laying Using Mechanical Paver (Unit = cum)						
		Taking outwork @	250 cum	525	1000			
	a)	Labour						
		Male	day	0.180	0.400	0.180	841.275	134.054
		Mason skilled	day	1.000	1.000	1.000	761.335	761.335
		Mason	day	3.000	3.000	3.000	761.335	2284.006
	b)	Machinery						
		Wet mix plant						
		(i) 250 tone per hour	hour	2.800			1616.385	2845.936
		(ii) 200 tone per hour	hour		2.800		674.495	
		(iii) 100 tone per hour	hour			7.000	645.953	
		Electric generator						
		(i) 125 KVA	hour	2.800			2635.917	7360.554
		(ii) 100 KVA	hour		7.800		2250.420	
		(iii) 62.5 KVA	hour			7.000	447.051	
		Front end loader for loading to Tipper						
		(i) 3.1 Cum Capacity	hour	5.838			4718.480	27622.644
		(ii) 2.1 Cum Capacity	hour		6.779		2811.427	
		(iii) 1 Cum Capacity	hour			18.257	1907.642	
		Tipper						
		For Transportation						
		(i) 18 cum capacity	1km	525 x L1			4.780	91237.005
		(ii) 14 cum capacity	1km		525 x L1		8.400	
		(iii) 10 cum capacity	1km			525 x L1	11.510	
		For loading & unloading time						
		(i) 18 cum capacity	hour	5.000			3178.838	17801.404
		(ii) 14 cum capacity	hour		5.000		2816.817	
		(iii) 10 cum capacity	hour			9.000	2207.416	
		Mechanical Paver finisher	hour	2.800	2.800	3.500	2851.230	7963.645
		Vibratory roller	hour	2.240	2.240	2.800	2824.605	6327.115
		Water tanker (speed @ 20km/hr and return speed @ 30km/hr and spreading speed @ 2.5 km/hr)						
		(i) 18 Kl capacity	hour	7.361			1686.982	12345.142
		(ii) 12 Kl capacity	hour		10.354		1470.184	
		(iii) 6 Kl capacity	hour			20.708	1119.423	
	c)	Material						
		Cement @ site	tonne	13.125	13.125	13.125	6038.248	87177.005
		Cost of water including water for curing	Kl	89.750	99.750	99.750	200.070	19960.009
	(f)	For Grading-III Material						
		26.5 mm to 9.5 mm @ 58 per cent	cum	228.845	228.845	228.845	1728.740	395615.503
		9.5 mm to 4.75 mm @ 12 %	cum	40.385	40.385	40.385	1778.740	71833.731
		4.75 mm below @ 20 per cent	cum	67.308	67.308	67.308	1778.740	119722.803
		OR						
	(g)	For Grading-IV Material						
		26.5 mm to 0.5 mm @ 54 per cent	cum	215.385	215.385	215.385	1728.740	372344.003
		0.5 mm to 4.75 mm @ 11 %	cum	37.019	37.019	37.019	1778.740	65847.587
		4.75 mm below @ 25 per cent	cum	64.135	64.135	64.135	1778.740	113653.505
	(h)	Rate per cum for Grading-III Material						
	d)	Overhead charges @ 8% on (a+b+c)						68761.795
	e)	Contractor's profit @ 10% on (a+b+c+d)						94178.425
		Cost for 250 cum = a+b+c+d+e						103502.875
		Rate per cum = (a+b+c+d+e)/250						414.051
							Say,	4143.85



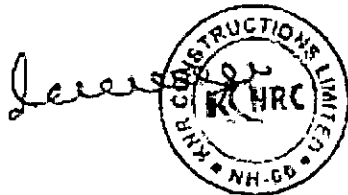
Sr No	Reference to MORT&H Specification	Description	Unit	Quantity	Rate (Rs.)	Amount	Remarks/ Input ref.	
				For Large Project		Large Project		
4.14	406	A	Wet Mix Macadam (Plant Mix Method)					
		Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification						
		Laying Using Mechanical Paver						
		Unit = cum						
		Taking output =		225	cum	2.2		
		a) Labour						
		Maze	day	0.180	841.835	134.694	L-12	
		Mazdoor skilled	day	1.000	761.335	761.335	L-15	
		Mazdoor	day	3.000	761.335	2284.006	L-13	
		b) Machinery						
		Wet mix plant						
		(i) 250 tonne per hour	hour	2.640	1016.395	2683.282	P&M-17001	
		(ii) 200 tonne per hour	hour		674.895		P&M-17002	
		(iii) 100 tonne per hour	hour		645.955		P&M-17003	
		Electric generator						
		(i) 125 KVA	hour	2.640	2635.912	6958.608	P&M-22005	
		(ii) 100 KVA	hour		2250.423		P&M-22006	
		(iii) 82.5 KVA	hour		1447.031		P&M-22007	
		Front end loader for loading to Tipper						
		(i) 3.1 Cum Capacity	hour	2.640	4718.480	12456.788	P&M-5001	
		(ii) 2.1 Cum Capacity	hour		2911.427		P&M-5002	
		(iii) 1 Cum Capacity	hour		1887.642		P&M-5003	
		Tipper						
		For Transportation						
		(i) 18 cum capacity	1 km	095 x L2	8.280	85070.600	P&M-72002	
		(ii) 14 cum capacity	1 km		9.400		P&M-73002	
		(iii) 10 cum capacity	1 km		15.610		P&M-74002	
		For loading & unloading site						
		(i) 18 cum capacity	hour	5.280	3178.638	16784.268	P&M-6001	
		(ii) 14 cum capacity	hour		2818.817		P&M-6002	
		(iii) 10 cum capacity	hour		2507.416		P&M-6003	
		Mechanical Paver finisher	hour	2.640	2851.230	7527.248	P&M-28001	
		Vibratory roller	hour	2.112	2824.805	5985.568	P&M-7001	
		c) Material						
		Close graded Granular sub-base Material as per table 400-1						
		For Grading-I Material						
		45 mm to 22.4 mm @ 30 per cent	cum	95.192	1708.740	162658.904	M-033	
		22.4 mm to 2.36 mm @ 40 per cent	cum	128.923	1741.240	224033.538	M-030	
		2.36 mm to 75 micron @ 30 per cent	cum	95.192	1778.740	169222.365	M-029	
		Cost of water	KL	59.400	200.000	11880.000	M-191	
		Rate per cum						
		d) Overhead charges		@ 8% on (a+b+c)		56519.312		
		e) Contractor's profit		@ 10% on (a+b+c+d)		78301.071		
		Cost for 225 cum = a+b+c+d+e						539311.781
		Rate per cum = (a+b+c+d+e)/225						3730.275
		Say,						3730.00



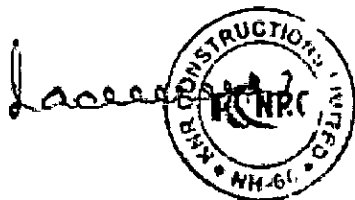
Sr No	Reference to MORT&H Specification	Description	Unit	Quantity	Rate (Rs.)	Amount	Remarks Input ref.
				For Large Project		Large Project	
3.18	305	Construction of Subgrade and Earthen Shoulders					
		Construction of sub-grade and earthen shoulders with approved material obtained from borrow pits with					
		Unit = cum					
		Taking output =	450	cum			
		b) Labour					
		M/s	day	0.080	841.835	67.347	L-12
		Mazdoor	day	2.000	761.335	1522.670	L-13
		b) Machinery					
		Hydraulic Excavator					
		(i) 1.2 cum bucket capacity	hour	5.048	3812.059	19241.822	P&M-3003
		(ii) 1.1 cum bucket capacity	hour		3432.358		P&M-3004
		(iii) 0.9 cum bucket capacity	hour		3112.854		P&M-3006
		Tipper					
		For Transportation					
		(i) 18 cum capacity	Lkm	450x1.75 x L2	8.280	19681.500	P&M-72002
		(ii) 14 cum capacity	Lkm		9.400		P&M-73002
		(iii) 10 cum capacity	Lkm		11.810		P&M-74002
		For Loading & unloading time					
		(i) 18 cum capacity	hour	5.048	3178.838	16045.555	P&M-8001
		(ii) 14 cum capacity	hour		2618.817		P&M-8002
		(iii) 10 cum capacity	hour		2507.418		P&M-8003
		Motor grader for grading					
		(i) Motor grader 4.30 metre blade	hour	2.177	6638.091	14889.391	P&M-2001
		(ii) Motor grader 3.70 metre blade	hour		6273.170		P&M-2002
		(iii) Motor grader 3.35 metre blade	hour		5498.246		P&M-2003
		Water tanker (speed @ 20km/hr and return speed @ 30 km/hr and spreading speed @ 2.5 km/hr)					
		(i) 16 KL capacity	hour	6.657	1666.990	11147.408	P&M-11001
		(ii) 12 KL capacity	hour		1470.184		P&M-11002
		(iii) 8 KL capacity	hour		1119.423		P&M-11003
		Vibratory roller 12 tonne	hour	2.184	2824.605	6170.254	P&M-7001
		c) Material					
		Cost of water (considering 5% additional moisture required)	KL	39.375	200.000	7875.000	M-191
		Compensation for earth taken from private land	cum	450.000	167.500	75375.000	M-093
		d) Overhead charges		@ 5% on (a+b+c)		13751.677	
		e) Contractor's profit		@ 10% on (a+b+c+d)		18564.763	
		Cost for 450 cum = a+b+c+d+e				204212.397	
		Rate per cum = (a+b+c+d+e)/450				453.805	
						Say. 454.00	



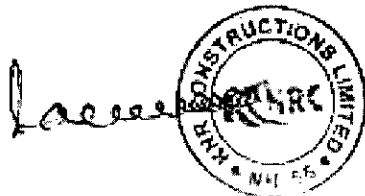
Sr No	Reference to MORT&H Specification	Description	Unit	Quantity	Rate (Rs.)	Amount	Remarks/ Input ref.
				For Large Project		Large Project	
3.10	335	Construction of Embankment with Material obtained from Borrow pits					
		Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required shape and compaction to meet requirement of table 300-2.					
		Unit = cum					
		Testing output = 450 cum					
		a) Labour					
		Mala	day	0.030	841.835	67.347	L-12
		Mazdoor	day	2.000	761.335	1522.870	L-13
		b) Machinery					
		Hydraulic Excavator					
		(i) 1.2 cum bucket capacity	hour	5.048	3812.059	19241.822	P&M-3003
		(ii) 1.1 cum bucket capacity	hour		3432.355		P&M-3004
		(iii) 0.9 cum bucket capacity	hour		3112.854		P&M-3005
		Tipper					
		For Transportation					
		(i) 18 cum capacity	L/m	450x1.6 x L2	8.280	17884.800	P&M-72002
		(ii) 14 cum capacity	L/m		9.400		P&M-73002
		(iii) 10 cum capacity	L/m		11.610		P&M-74002
		For Loading & unloading time					
		(i) 18 cum capacity	hour	5.048	3178.838	16045.583	P&M-6001
		(ii) 14 cum capacity	hour		2818.817		P&M-6002
		(iii) 10 cum capacity	hour		2507.416		P&M-6003
		Motor grader for grading					
		(i) Motor grader 4.30 metre blade	hour	2.177	6538.091	14289.391	P&M-2001
		(ii) Motor grader 3.70 metre blade	hour		6273.170		P&M-2002
		(iii) Motor grader 3.35 metre blade	hour		5495.246		P&M-2003
		Water tanker (speed @ 20 km/hr and return speed @ 30 km/hr and spreading speed @ 2.5 km/hr)					
		(i) 16 KL capacity	hour	6.114	1688.850	10319.816	P&M-11001
		(ii) 12 KL capacity	hour		1470.184		P&M-11002
		(iii) 8 KL capacity	hour		1118.423		P&M-11003
		Vibratory roller	hour	2.184	2624.605	6170.254	P&M-7004
		c) Material					
		Cost of water (considering 5% additional moisture required)	KL	35.000	200.000	7200.000	M-191
		Compensation for earth taken from private land	cum	450.000	167.500	75375.000	M-092
		d) Overhead charges		@ 8% on (a+b+c)		13487.104	
		e) Contractor's profit		@ 10% on (a+b+c+d)		18207.587	
		Cost for 450 cum = a+b+c+d+e				200283.452	
		Rate per cum = (a+b+c+d+e)/450				445.074	
						Spy, 445.00	



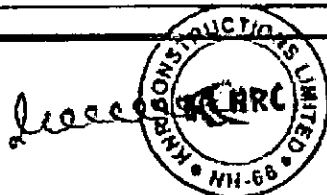
Sr No	Reference to MORT&H Specification	Description	Unit	Quantity	Rate (Rs.)	Amount	Remarks/ Input ref.
				For Large Project		Large Project	
3.6	301	Excavation in Soil using Hydraulic Excavator and Tippers with Disposal upto 1000 metres.					
Excavation for roadwork in soil with hydraulic excavator including cutting and loading in tippers, forming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location within at 100m and lead upto 1000m							
Unit = cum							
Taking output =			350	cum			
a) Labour							
		Male	day	0.040	841.835	33.673	L-12
		Male/door	day	1.000	781.335	781.335	L-13
b) Machinery							
Hydraulic Excavator							
		(i) 1.2 cum bucket capacity	hour	3.926	3812.059	14985.802	P&M-3003
		(ii) 1.1 cum bucket capacity	hour		3432.358		P&M-3004
		(iii) 0.9 cum bucket capacity	hour		3112.654		P&M-3005
Tipper							
For transportation considering lead @ 1 km							
		(i) 18 cum capacity	1.km	525.000	8.280	4347.000	P&M-72002
		(ii) 14 cum capacity	1.km		9.600		P&M-73002
		(iii) 10 cum capacity	1.km		11.610		P&M-74002
For loading & unloading time							
		(i) 18 cum capacity	hour	3.926	3178.838	12479.884	P&M-6001
		(ii) 14 cum capacity	hour		2818.617		P&M-6002
		(iii) 10 cum capacity	hour		2507.416		P&M-6003
c) Overhead charges				@ 8% on (a+b)		2607.020	
d) Contractor's profit				@ 10% on (a+b+c)		3519.477	
Cost for 350 cum = a+b+c+d						38714.252	
Rate per cum = (a+b+c+d)/350						110.612	
						Say, 111.00	



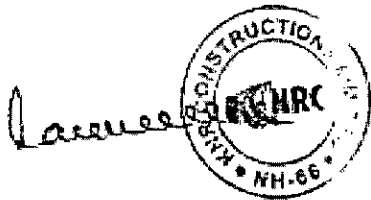
Sr No	Reference to MORT&H Specification	Description	Unit	Quantity	Rate (Rs.)	Amount	Remarks/ Input ref.
				For Large Project		Large Project	
B.1	409	Cast In Situ Cement Concrete M20 Kerb					
		Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively, 250 mm					
		Unit = Running metre					
		Taking output = 360 meter					
	(4)	PCC M20 for Kerb Cast In Situ		Total Concrete = 12.600 Cum			
	a)	Labour					
		Misc	day	0.060	841.83	50.51	L-12
		Mason	day	0.500	1006.93	503.46	L-11
		Mazdoor	day	1.000	751.34	751.34	L-13
	b)	Machinery					
		Kerb casting machine @ 120 metres/hour	hour	3.000	2157.81	6473.44	P&M-37001
		Transit truck agitator					
		For Transportation Transit truck agitator 8 cum capacity	Linn.	28.580 x L	14.79	8000.90	P&M-75001
		For loading & Unloading time	hour	3.140	2661.38	8358.73	P&M-34001
		Concrete cutting machine	hour	6.000	247.73	1486.39	P&M-81002
		Water tanker (speed @ 20km/hr and return speed @ 30 km/hr and Curing speed @ 2 km/hr)					
		(i) 18 KL capacity	hour	0.183	1688.900	305.682	P&M-11001
		(ii) 12 KL capacity	hour		1470.184		P&M-11002
		(iii) 6 KL capacity	hour		1119.423		P&M-11003
	c)	Material					
		Concrete Item sub analysis of concrete Rate	cum	12.600	4727.65	59558.62	Sub-Analysis of Concrete - 19.2
		Cost of water	KL	6.066	200.00	1217.16	M-191
	d)	Overhead charges		@ 8% on (a+b+c)		7017.95	
	e)	Contractor's profit		@ 10% on (a+b+c+d)		8474.24	
		Cost for 360 meter = a+b+c+d+e				104216.63	
		Rate per metre = (a+b+c+d+e)/360				434.24	
						597	477.40



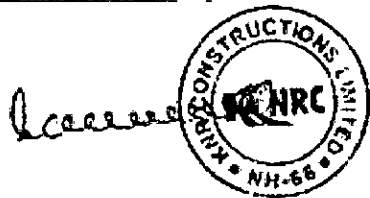
Quantity	As Per Schedule - A			As Per Schedule - B					
	Est. No.	Existing Type	Spec.	Pro. Type	Span	Width (Kms)	Construction	Height	Remarks
298.470			0.00	1.0X1.2	1.0X1.2	25.00	1.00	2.00	
As Per Schedule - B			Pile						
1.0X1.2									
Detail	Rates	As per CA							
		Kms	Length	Width	Depth	Quality	Amount		
Dismantling of Pipe		0.0	0.00				0.000	-	
Dismantling of PCC/RCC		2.0	0.00	2.00	0.50		0.000	-	
Dismantling of Stone		4.0	0.00	0.00	0.30		0.000	-	
Excavation	145						60.603	8,767	
Excavation for Pipe		1.00	25.00	1.84	0.57		26.220	-	
Head Wall		2.00	7.37	1.37	1.22		24.836	-	
300mm thick stone Apron D/S		1.00	7.22	3.00	0.30		6.488	-	
300mm thick stone Apron U/S		1.00	7.22	1.50	0.30		3.249	-	
Back Filling	454						36.020	18,353	
Deduct for pipe		2.00	25.00	1.74	1.36		117.450	-	
Total Back Filling		2.00	25.00		1.63		41.430	-	
PCC M15	8,117						18.600	1,35,213	
Home Pipe leveling course		1.00	25.00	1.84	0.45		20.700	-	
Less for Home Pipe section		-1/4	25.00	1.84	11.2/2		-7.009	-	
Head wall leveling course		2.00	7.37	1.37	0.15		3.028	-	
Encasing of Pipe (bed, Leveling)		0.00	25.00	1.84	1.59		0.000	-	
Deduction of Pipe Area (Encasing)		0.00	25.00	2.07	n ²		0.000	-	
PCC (M20)	8,060						29.891	2,62,532	
Head Wall		2.00	7.22	0.61	2.58		31.483	-	
Less for Home Pipe section		-2.00	0.610	1.84	11.2/2		-1.832	-	
Top Grab (Encasing)		0.00	25.00	1.84	0.20		0.000	-	
NP-4 Home Pipe							27.750	-	
900 Dia							0.000	-	
1000 Dia							0.000	-	
1200 Dia	8,708		27.75				27.750	2,41,647	
1500 Dia							0.000	-	
1600 Dia							0.000	-	
Stone boulder apron	8,260						8.509	27,725	
D/S		1.00	7.22	3.00	0.30		6.488	-	
Less for embankment pitching		-1/2	n=1	(2.88)2	0.300		-0.977	-	
U/S		1.00	7.22	1.50	0.30		3.249	-	
Less for embankment pitching		-1/2	n=4	(1.5)2	0.300		-0.282	-	
Filter material (150 mm thick)	3,990						1.242	4,945	
D/S		1/2	n=1	(4.073)2	0.150		0.977	-	
U/S		1/2	n=4	(2.121)2	0.150		0.285	-	
Stone boulder pitching	3,250						2.484	8,096	
D/S		1/2	n=4	(4.073)2	0.300		1.954	-	
U/S		1/2	n=4	(2.121)2	0.300		0.530	-	
Steel	1,13,261						0.580	67,211	
for Encasing		20 Kgs	25.00				0.500	-	
For Chamber		40 Kgs				2.34	0.083	-	
Marker Post			2.00				2.000	-	
Total Amount								17,2,433	



9.01	304	Excavation for Structures				
		Earth work in excavation of foundation of structures as per drawing and technical specification, including				
	I	Ordinary soil				
B	(i)	Mechanical Means (Depth upto 3 m)				
		Unit = cum				
		Taking output =	330	cum		
	a)	Labour				
		Mata	day	0.320	841.83	269.39
		Mazdoor	day	8.000	781.34	6090.88
	b)	Machinery				
		Hydraulic Excavator				
		For excavation				
		(i) 1.2 cum bucket capacity	hour	4.627	3812.05	17038.34
		(ii) 1.1 cum bucket capacity	hour		3432.35	
		(iii) 0.9 cum bucket capacity	hour		3112.65	
		For backfilling (considering 60% of the excavated material)				
		(i) 1.2 cum bucket capacity	hour	2.776	3812.05	10583.00
		(ii) 1.1 cum bucket capacity	hour		3432.35	
		(iii) 0.9 cum bucket capacity	hour		3112.65	
		Tipper for transportation of excess material to dumping yard considering lead @ 1 km				
		(i) 18 cum capacity	t-km	198.000	8.28	1639.44
		(ii) 14 cum capacity	t-km		9.40	
		(iii) 10 cum capacity	t-km		11.61	
	c)	Overhead charges		@ 20% on (a+b)		7244.17
	d)	Contractor's profit		@ 10% on (a+b+c)		4346.60
		Cost for 330 cum = a+b+c+d				47811.52
		Rate per cum = (a+b+c+d)/330				144.88
						143.00

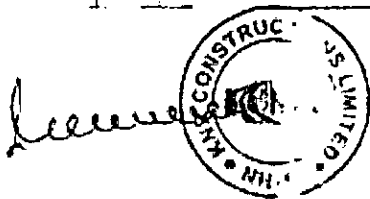


9.14	1500, 1700 & 2100	Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications.			
A		PCC Grade M15			
Case I		PCC Grade M15 using batching plant & Concrete pump			
		Unit = cum	Taking output = 30 cum		
a)		Material			
		Per Cum Basic Cost (Rate as in sub-analysis)	cum	30.000	4255.12 127653.74
		Water for curing	Kl	15.750	200.00 3150.00
b)		Labour			
		For pouring and placing			
		Mate	day	0.16	841.83 130.85
		Mason	day	1.50	1006.93 1510.39
		Muzloor	day	2.30	751.34 1818.75
c)		Machinery			
		Transit truck agitator			
		For transportation (6 cum Capacity)	tonne-km	75 x L1	14.79 23294.25
		For unloading	hour	0.69	2561.38 1848.18
		Hydraulic Boom placer pump	hour	0.69	4332.76 3359.88
		Water tanker (speed @ 20km/hr and return speed @ 30 km/hr and 30 mins for unloading)			
		(i) 16 KL capacity	hour	2.95	1666.88 4922.80
		(ii) 12 KL capacity	hour		1470.18 P&M-11002
		(iii) 6 KL capacity	hour		1119.42 P&M-11003
		Per Cum Basic Cost of Labour, Material & Machinery (a+b+c)	5590.00		
d)		Formwork @ 10 percent on cost of concrete i.e. cost of material, labour and machinery			16769.80
e)		Overhead charges	@ 20% on (a+b+c+d)		36893.79
f)		Contractor's profit	@ 16% on (a+b+c+d+e)		22136.27
		Cost for 30 cum = a+b+c+d+e+f			243499.00
		Rate per cum = (a+b+c+d+e+f)/30			8116.63
			say		8117.00

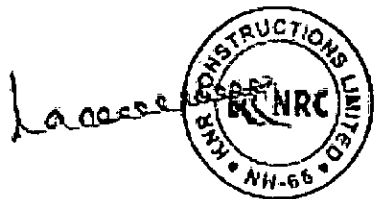


9.14

C		RCC Grade M20					
Case I		RCC Grade M20 using batching plant transit mixer & Concrete pump					
Unit = cum		Taking output = 30 cum					
a)	Material						
	Per Cum Basic Cost (Rate as in sub-analysis)	cum	30.00	4765.86	143008.75		Sub-Analysis of Concrete - M-191
	Water for curing	kl	15.75	200.00	3150.00		
b)	Labour						
	For pouring and placing						
	Mate	day	0.16	841.83	130.95		L-12
	Mason	day	1.50	1006.93	1510.39		L-11
	Woodbor	day	2.39	781.34	1818.75		L-13
c)	Machinery						
	Transit truck agitator						
	For transportation (5 cum Capacity)	tonne-km	75 x L1	14.79	23234.25		P&M-76001
	For unloading	hour	0.69	2651.38	1843.18		P&M-34001
	Hydraulic Boom place pump	hour	0.69	4852.76	3359.68		P&M-36001
	Water tanker (speed @ 20km/hr and return speed @ 30 km/hr and 30 mins for unloading)						
	(i) 16 KL capacity	hour	2.95	1656.86	4922.60		PSM-11001
	(ii) 12 KL capacity	hour		1470.18			PSM-11002
	(iii) 6 KL capacity	hour		1119.42			PSM-11003
	Per Cum Basic Cost of Labour, Material & Machinery (a+b+c)		6102.00				
d)	Formwork @ 10 per cent on cost of concrete i.e. cost of material, labour and machinery				16305.40		
e)	Overhead charges		@ 20% on (a+b+c+d)		40271.89		
f)	Contractor's profit		@ 10% on (a+b+c+d+e)		24163.13		
	Cost for 30 cum = a+b+c+d+e+f				265794.47		
	Rate per cum = (a+b+c+d+e+f)/30				8859.82		
				₹	8860.00		

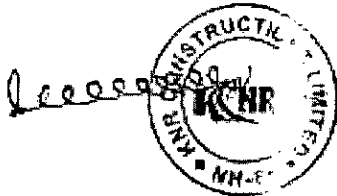


9.12	2800	Laying Reinforced Cement Concrete Pipe NP4 / Prestressed Concrete Pipe on First Class Bedding in				
		Laying Reinforced cement concrete pipe NP4/prestressed concrete pipe for culverts on first class bedding				
		Unit = metre				
9.12	B	1200 mm dia				
		a) Labour				
		Mate	day	0.160	841.83	134.69 L-12
		Mason	day	1.000	1006.93	1006.93 L-11
		Mazdoor	day	3.000	761.34	2284.01 L-13
		b) Material				
		Sand at site	cum	0.090	1378.74	124.09 M-005
		Cement at site	tonne	0.070	6636.75	464.68 M-061
		RCC pipe NP-4/prestressed concrete pipe including collar at site	metre	12.500	5400.00	67500.00 M-149
		Granular material passing 5-6 mm sieve for class bedding	cum	5.000	1692.38	8461.88 M-009
		c) Machinery				
		Light Crane 3 tonnes capacity for handling Hume pipe	hour	2.08	1184.67	2488.89 P&M-03001
		d) Overhead charges		@ 20% on (a+b+c)		16493.03
		e) Contractor's profit		@ 10% on (a+b+c+d)		9585.82
		Cost for 12.5 metres = a+b+c+d				108864.02
		Rate per metre = (a+b+c+d)/12.5				8708.32
						say 8708.00
		Note 1. In case of cement cradle bedding, quantity of PCC M15 is to be calculated as per design and priced separately				
		2. The rate analysis does not include excavation, cement masonry works in head walls, backfilling, protection works and parapet walls. The same are to be calculated as per approved design and drawings and priced				

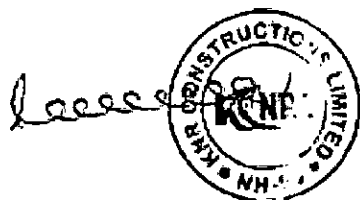


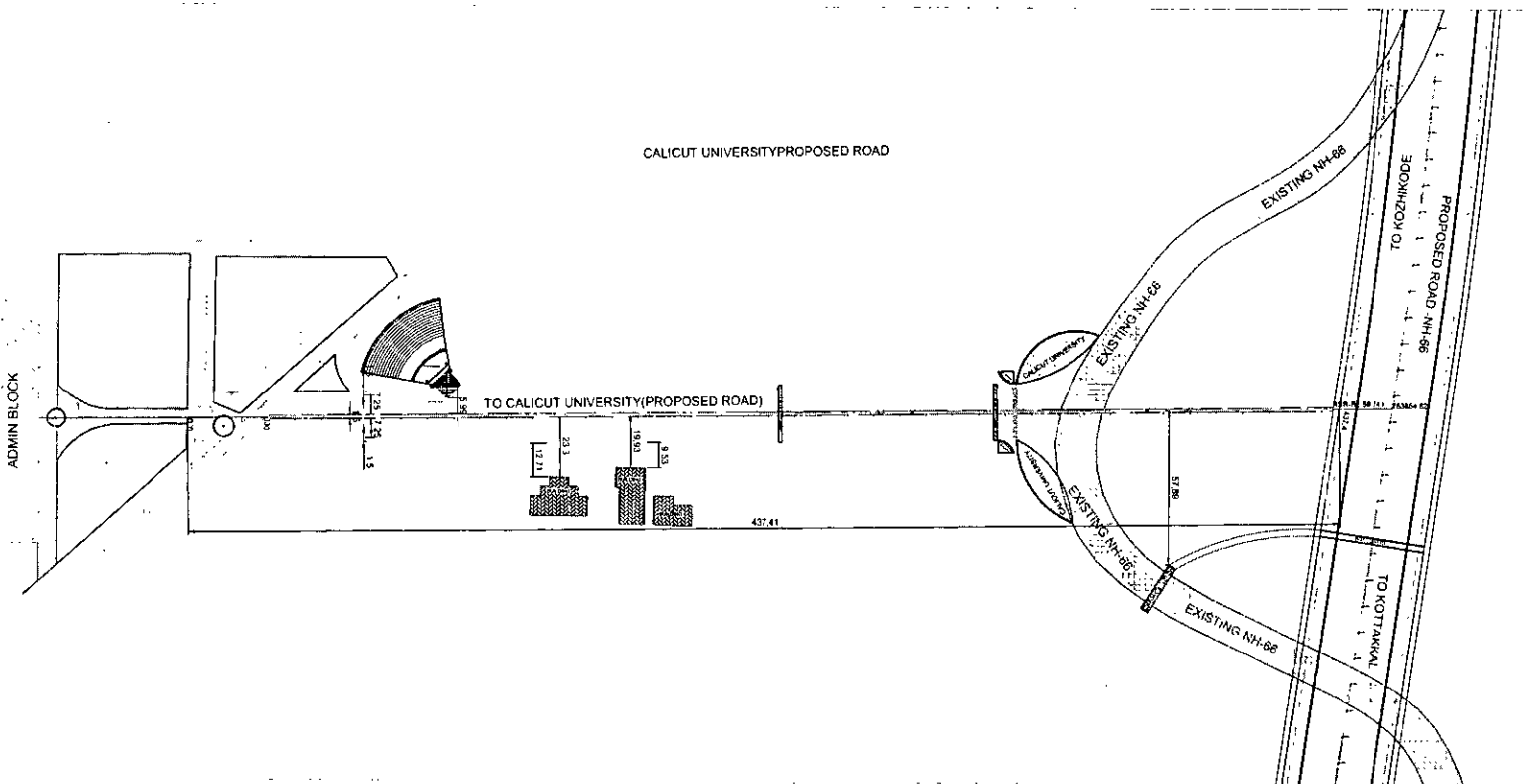
15.4	2504	Providing and laying Pitching on slopes laid over prepared filter media including boilder apron laid dry in					
A		Stone/Boulder					
		Unit = cum					
		Taking output = 1 cum					
a)		Material					
		Stone weighing not less than 40kg	cum	1.00	1478.74	1478.74	M-003
		Stone spalls of minimum 25 mm size	cum	0.20	167.50	33.50	M-008
b)		Labour					
		Mate	day	0.04	841.83	33.67	L-12
		Mason	dry	0.35	1006.93	352.42	L-11
		Mazdoor	dry	0.75	761.34	571.00	L-13
c)		Overhead charges					
		@ 20% on (a+b)				493.67	
d)		Contractor's profit					
		@ 10% on (a+b+c)				296.32	
		Rate per cum = (a+b+c+d)				3259.50	
						say	3259.00

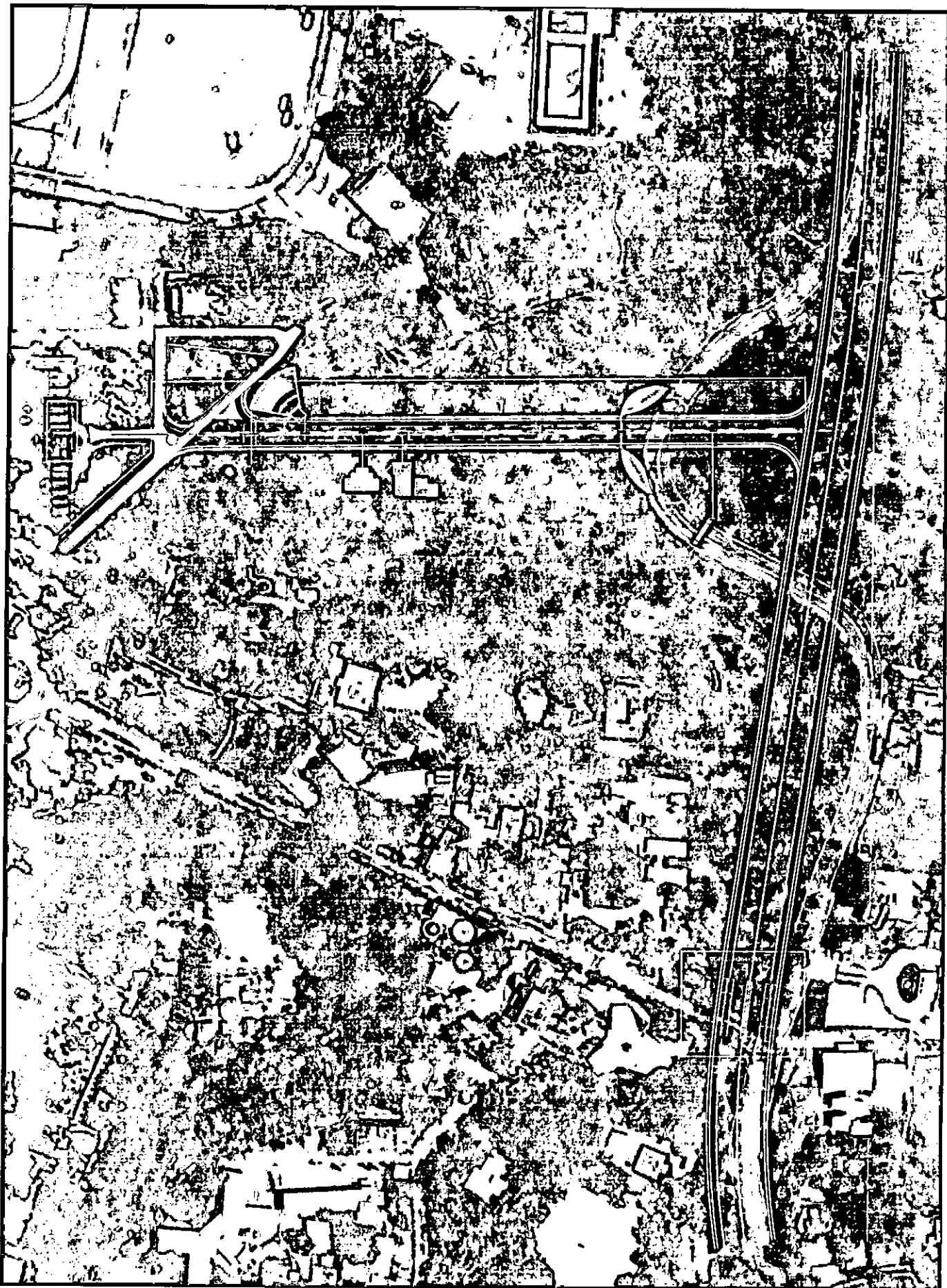
15.5	2504	Providing and laying Filter material underneath pitching in slopes complete as per drawing and Technical					
		Unit = cum					
		Taking output = 1 cum					
a)		Material					
		Graded stone aggregate of required size	cum	1.20	1634.30	1981.15	M-011
b)		Labour					
		Mate	day	0.05	841.83	42.09	L-12
		Mazdoor (Skilled)	day	0.25	761.34	190.33	L-15
		Mazdoor *	day	1.00	761.34	761.34	L-13
c)		Overhead charges					
		@ 20% on (a+b)				580.98	
d)		Contractor's profit					
		@ 10% on (a+b+c)				754.59	
		Rate per cum = (a+b+c+d)				3900.49	
						say	3900.00



8.15	1600	Supplying, Fitting and Placing un-coated HYSD bar Reinforcement in Foundation complete as per Drawing and Technical Specifications.				
		Unit = MT				
		Taking output = 8	8	MT		
	a)	Material				
		MS bars including 5 percent overlaps and wastage	tonne	8.40	78910.21	652845.80 M-083
		Binding wire	Kg	48.00	47.75	2100.00 M-072
	b)	Labour for straightening, cutting, bending, shifting to site, tying and placing in position				
		Mole	day	0.10	841.83	134.60 L-12
		Blacksmith	day	1.00	1008.93	1008.93 L-02
		Mazdoor	day	3.00	761.34	2284.01 L-13
	c)	Machinery				
		Cutting Machine	hour	5.33	582.29	3105.52 P&M-43001
		Bending Machine	hour	5.33	582.29	3105.52 P&M-43001
		Electric generator 15 KVA	hour	5.33	488.84	2580.47 P&M-22009
		Tipper				
		Tipper for Transportation				
		(i) 18 cum capacity	Lkm	8 x L	8.28	1391.04 P&M-72002
		(ii) 14 cum capacity	Lkm		9.40	P&M-73002
		(iii) 10 cum capacity	Lkm		11.61	P&M-74002
		Loading & Unloading Time	hour			
		(i) 18 cum capacity	hour	1.00	3178.84	3178.84 P&M-6001
		(ii) 14 cum capacity	hour		2818.82	P&M-6002
		(iii) 10 cum capacity	hour		2507.47	P&M-6003
		Light weight Crane				
		At cutting bending yard	hour	2.00	1194.67	2389.34 P&M-63001
		At site	hour	2.00	1194.87	2389.34 P&M-63001
		Per MT Basic Cost of Labour, Material & Machinery (a+b+c)		85604.00		
	d)	Overhead charges		@ 20% on (a+b+c)		137266.30
	e)	Contractor's profit		@ 10% on (a+b+c+d)		82371.78
		Cost for 8 MT (a+b+c+d)				905269.57
		Rate for per MT (a+b+c+d)/8				113261.20
				say		113261.00







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