



എല്ലാവരും

XVI BATCH

THE VOICE & NOISE OF JCCNET



ALL KERALA STUDY TOUR REPORT
2000 BATCH

KERALA AGRICULTURAL UNIVERSITY
KELAPPAJI COLLEGE OF
AGRICULTURAL ENGINEERING & TECHNOLOGY
Tavanur
Malappuram Dist., Pin : 679 573

ACKNOWLEDGEMENT

ACKNOWLEDGEMENTS

It is with deep sense of profound gratitude I express my heartfelt thanks and indebtedness to our Tour Leader Er. Leven .K. V. Asst. Prof. Dept. of IDE and Abitha. P. V. Asst. Prof. Dept. of PDC for their valuable guidance, critical suggestions and immense help that they showed during the tour. Words fail in vocabulary to express our gratitude.

We have immense pleasure to express our profound sense of gratitude and respect to Dr. John Thomas, Dean, K.C.A.E.T. Tavanur for his valuable guidance, constant encouragement, interest and timely advice.

My cordial and sincere thanks are to Er. Renuka Kumari, Asst. Prof. Dept. Of LWRCE for the sincere help rendered at the critical moment and for her sustained interest and activities extended to me at all initial stages of the tour.

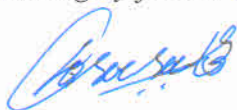
There are no words to express my deep felt gratitude to Er. Sathian. K. K. Asst. Prof. Dept. of LWRCE for conducting the first three-day tour to Trivandrum which was considered as the first part of the All Kerala Study Tour. I acknowledge my gratitude for his inestimable help, unfailing support and affectionate encouragement that he showed to our class.

I acknowledge my gratitude to George Mathew. N for the valuable help during the tour. I am grateful to Sushil Sivaram and the finance committee for the help in conducting the tour in a well planned manner.

I acknowledge my gratitude to Vishnupriya. S., Smitha. K. E., Brinly Manuel, Nidhi. S. S. Roshni Raju , Santhi Vasavan and Silesh Kumar Singh for their timely help to complete the tour report.

It is with deep gratitude that I remember the unfailing support and constant encouragement of all of my classmates during all the stages of the tour.

Above all I bow my head before God Almighty for his blessings.



Joe Joe .L. Bovas.

Representative 2000 batch

2002 – 2003.



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TOUR REPORT

ALL KERALA STUDY TOUR REPORT

The All Kerala study tour, for the B.Tech students from Kerala Agricultural University, commenced on 14th march 2003 and ended on 24th March 2003. The-tour group consisted of 27 students of 2000 admission and two members of the faculty. Er. Leven.K.V. Asst. professor, Dept. of IDE, was the tour leader accompanied by Smt. Abida.P.S. Asst. professor, PDC.

Our Dean Dr. K. John Thomas, teachers and other students gave a warm sendoff to the touring party. The tour party left the college at 7am in the University bus. Our first visit was to CWRDM (Center for Water Resources Development and Management), Kozhikode.

We reached CWRDM headquarters at 10:30am. Er. Babu Mathew (Agrl. Engg) gave us a general introduction about the administration setup and the functions of CWRDM. In his address he pointed out that CWRDM is the "WALMI" (Water and Land Management Institute) of Kerala. We were then taken to the various departments and experts in the respective departments explained their work.

A. Surface Water Resources Dept.

Here using the available historical data they conduct drainage basin studies, saline water intrusion problems, sedimentation in reservoir and impact of detonation. They also employ ecosounder to find the present capacity curve and compare it with the initial capacity curve for the reservoirs.

B. Ground water division:

Here they explained to us the procedure to locate live catchment in the ground using stereoscopes and aerial photography and how to locate the presence of groundwater using feerometer, which works on the principle of variation of resistivity of water to electric current.

-2-

C. Water management dept.

Water management works are concentrated on microclimate interaction by the use of sprinklers and drip.

D. Water testing dept:

They showed advanced equipments used for water testing.

- A .UV -visible spectrometer
- B Ionmeter
- C .Marck photometer -sg118
- D .Atomic absorption spectrometer
- E .Mercury analyzer
- F .Flame photometer
- G .Turbiditymeter
- H. Pesticide analyzer
- I. Water pathology dept:

Here they find the presence of pathogens mainly E.coli bacteria using

- a. Standard plate counter
- b. multiple tube dilution counter

Next they turned our attention to the great "Water resources museum" which extremely fascinated every one. The models including Archimedian Screw for water lifting, automatic tap, bush pump, models of hydroelectric power generators, watershed etc were demonstrated there.

Then by about 2:00 pm we started our journey to the northern part of Kerala. By about 8:00 pm we reached the College of Agriculture, Padannakkad .

The second day of our tour started with visit to Central Plantation Crops Research Institute (CPCRI) situated at the most northern part of Kerala viz. Kasaragode .We reached there by 9:15 am. The three main crops under their research are coconut, arecanut and cocoa. Areas of research are mainly crop improvement, crop production and crop protection. We visited their Engineering Wing where we saw different types of coconut and arecanut dehuskers, coconut dryers etc .We were lucky to test their new product -coconut chips and some advanced sprayers used for spraying a tall coconut foliage. In addition to these they also entertained us with a good Vedio presentation which helped us to go through their achievements from the start. It also gave us ample knowledge of the training programmes conducted in their campus.

From CPCRI Kasaragode, we went to Bakal fort, one of the most splendid archeological monuments of Kerala. The sight of the Arabian Sea waves reflected by the midday sun was heart warming. We spent some interesting moments on the beach enjoying the natural beauty.

Around 8:00 pm we reached Engapuzha and spent the night at Shreyas, an NGO which is undertaking the KRWSA Jananidhi project at the Pudupadi Panchayath.

The next day we spent the morning at the Shreyas office studying their various activities .We came to know that Shreyas is doing the project of Kerala Rural Water Supply scheme. It was started in 1979. Their work is done through 2400 self-help groups in 10 divisions. Jananidhi is their supporting organization and is funded by the World Bank. Their work will come under Participatory Rural Appraisal (PRA) which consist of watershed management, water supply, ground water recharging and environment management etc.

PRA steps involve:

1. Transect walk
2. Resource mapping
3. Social mapping
4. Daily routine analyzer
5. Historical time line
6. Socioeconomic time line
7. Seasonality calendar

We visited a number of sites with water harvesting structures made of Ferro cement constructed in the farmers plots.

Then we went to Pookode Lake generally admired for boating and scenic beauty. By about 5:00 pm we reached RARS, Ambalavayal.

On the third day we reached the central plantation of RARS at 8:45am. It is the Regional Agricultural Research Station concentrating their research on the production of good quality plants. They conduct research on paddy, pepper, strawberry etc. They have an agromet optional service, which gives meteorological information to farmers. They have a Biotechnology wing too.

From RARS we went to Edakkal caves, the second largest cave in India next to Ajantha and Ellora. Here the histories of ancient men were carved beautifully. Some of us

succeeded in climbing up the entire height. This was really a great adventurous experience.

Owing to hartal on 18th March 2003, we had to spend the whole day at RARS. We spent the day by playing small games. The night was an explosion of joy, yes campfire.

The next morning we started our journey to Silent Valley. From Agaly we had to go by jeep into the forest area. We planned a 3km trekking to see the deep forest. As we reached the interior of the forest, almost 1km away from the point of start, we were attacked by a group of blood sucking leeches, which frightened everybody. The girls started screaming, which turned the silent valley to a noisy valley. The noise frightened the lion tailed monkeys, the protected species of the silent valley. They left the sight sensing foreign intrusion. Somehow we completed the trekking. For the next half an hour we were engaged in removing the leeches from our legs. It was surprising to find that people having O-positive blood were attacked badly and people having B-positive blood were not attacked at all. This led to an important finding by the 16th batch of K.C.A.E.T. that leeches of the silent valley like O-positive blood and hate B-positive blood. After removing the leeches we moved to the tower point. Blood was oozing out from every ones leg. We climbed up the tower to get the entire view of the silent valley. Then we went down to see the dam site. From silent valley we went to the college of Horticulture, Vellanikkara to spend the night.

The next day we started our journey from Vellanikara to Kerala Agro. Machinery Cooperation, Athani (KAMCO). According to their Motto -"TRANSALATE A

NATIONAL DREAM TO REALITY", they were introducing farmer friendly agro machines. We visited their power tiller assembly unit and their advanced machine shop.

Kamco power tiller is equipped with a powerful engine with unique radiator cooling system and it is a versatile machine that can make fortune smile at you. Tilling, Ploughing, Puddling, Levelling, Ridging, Weeding, Pumping, Spraying, Hulling, Transporting etc. are the different works that can be done by the machine. The machine has the following advantages

- *Simple movements and controls for easy handling.
- *Perfectly balanced and vibration-free engine to reduce operation fatigue
- *Feel-safe safety devices to prevent accidents
- *Automatic fuel-control to save precious fuel.
- *Unique radiator cooling system for non-stop operation.

Technical Specification:

Model	Engine: ER90 Tiller: KMB 200
Type	Rotary, diesel-powered, water-cooled, with Radiator.
HP	Continuous: 9 Maximum: 12
RPM	2000
Fuel consumption	1.5liters per hour
Fuel tank capacity	12 liters
No. Of speeds	Forward: 6 Reverse: 2

- 7 -

Tilling: 4

Wheel track	Maximum: 930mm Minimum: 690mm
Tyre size	6.00x12
Ground clearance	203mm
Travelling speed	5 km/h (Max)
Tilling width	600 mm
Tilling depth	190mm
No. Of blades	20
Tilling capacity	1 hectare/8hrs
Overall dimensions	L: 2250xW: 820xH: 1030mm
Weight	485Kg
Trailing body	1830x9830x350mm
Light Unit	6 volts, 35watts

From KAMCO we went to Modern Bread Ltd., Edapally. The various steps involved in bread making fascinated us. We then spent the evening at Marine Drive to enjoy the beauty of the sunset. That night we had our stay at the College of Fisheries, Panangad.

Next day we visited Thekkady ecosystem. After lunch we went for boating, we were fascinated to see elephants, monkeys, deers, wild buffalo and some rare birds roaming freely in their habitat. Later we did some shopping and went to Kumily where accommodation and food for the night was arranged.

The next day we moved on to Vagamon to visit the Dairy unit run by a retreat center. After lunch we started to climb up the Kurishumala -a sign of divine. It was a wonderful experience. The scenic beauty of the place was just beyond words. The wind was blowing heavily as if it was trying to take us away. With tremendous pleasure we returned to the College of Fisheries, Panangad. This visit will stay in our minds as long as we live. Our only prayer is that let no man intrude and spoil this one too.

The 23rd of March 2003 was a day kept aside for thrill and amusement. As the slogan says, " TOP OF THE HILL, FULL OF THRILL". We were at Veega land. First we enjoyed the music fountain, and then we dispersed to the different thrills waiting for us. After lunch we started to enjoy the water theme park .The presence of APPU and PAPPU interested every one. After lots and lots of fun we went back to the College of Horticulture to spend the night.

The last day of our tour was an informative one. We went to see the Water Management Unit On Tree Crops (WMUTC) under AICRP by KAU.

The ongoing ICAR projects are:

1. Effect of irrigation and mulching in coconut.
2. Comparative study of drip method of irrigation and soil water status with yield response of coconut.
3. Effect of irrigation on growth and yield of cashew.
4. Comparative study of wetting front advance of soil moisture using surface and subsurface drip irrigation for different discharge rates.
5. Comparative studies on continuous flow and surge flow furrow irrigation for tapioca.

6. Design criteria of bubbler irrigation.

There was a demonstration of the working of the bubbler irrigation. The uniform discharge is possible under a small pressure of 0.4kg/cm^2 . It has several advantages and the pressure is comparatively lower than the sprinkler system.

The working of the drip irrigation and its components were explained to us by the scientist in charge. There was a central drainage system with the tile drainage properly laid along the lateral lines. Then we were taken to the pump testing unit. The pump testing methods were explained to us. By 1:30pm, we returned to K.C.A.E.T., with lots of memories and innovative data in our brains.



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STUDY TOUR TO TRIVANDRUM

We the 2000 – Batch of B.Tech (Agrl.Engg), K.C.A.E.T. started our tour to Trivandrum on 12-12-2002 at 3pm. The team consisted of 27 students and one faculty member, Er Sathyan .K.K.Asst. Professor Department of LWRCE. We reached Trivandrum at 12pm and stayed at the headquarters of the south Kerala section of the Seventh day Adventist.

The next morning our team went to visit *VIKRAM SRARABHAI SPACE CENTER* (VSSC) at Thumba. We could gain entry to its museum housing different models of rockets and satellites. One of the experts of the concerned department explained the chronological sequence of satellite mission, different stages of launching a rocket, different materials used for its construction, rocket fuels and types of satellites technology mission. It fascinated all of us when he mentioned that our president Dr. A.P.J. Abdul Kalam was a former scientist of VSSC.

From VSSC we moved on to *Govt. Engg. College Trivandrum*. There we first visited the strength of materials lab where we did the compression test of timber and tension test on M.S. rod in computerized U.T.M. and torsion test. In geotechnical lab, direct shear test, triaxial shear test, consolidation test, unconfined compression test, vane test etc was done. Then we went to survey lab. There we could see the automatic level, theodolite, total station electronic theodolite and their methods of use. In the concrete lab we could see Vee-Bee consistometer used for measuring workability, slump test and the Vicket apparatus, which is used to find out the quantity of water, added to concrete. Also we could see the column-testing machine. From there we proceeded to Kovalam beach. The evening at the beach was so interesting and full of fun in the waves of Arabian Sea.

- / -

we could see the column-testing machine. From there we proceeded to Kovalam beach. The evening at the beach was so interesting and full of fun in the waves of Arabian Sea.

Campfire was the next attraction of the day; we assembled in the SDA ground. The program started with an excellent welcome speech by Mr. Joe Joe L. Bovas. Many SDA officials spoke on the occasion including the Bishop. Next was the time of music and dance. After that Joe-Joe's father talked and it was really touching. One thing that made us really proud about our batch was that he said, he noticed a peculiar maturity between the girls and boys, which is very rare and appreciable. That day ended with lot of happy moments.

The next morning we proceeded to the *Center for Earth Science Studies (CESS)*, Akkulam. At first, Dr V.R. Nandakumar Senior Scientist gave us introduction about CESS. Then we were divided into three groups and visited different departments namely Seismology, Remote Sensing, GIS etc. The experts in the concerned department explained about their activities and gave brochures available with them. After Lunch at about 2pm we left CESS. On the way we got down at famous Aakulam boat club for boating. Then we went to Veli and spent one hour at the beach. From there we started our return trip at 6pm. We reached K.C.A.E.T. at 3am, and there ended our eventful and memorable study tour.

PHOTOS



ഒരു ശുഭയാത്രയുടെ തുടക്കം...



ZOOMING IN....

XXVII B. V. T. C. K.

FOR THE
FOR THE



TOTAL STATION



TRIAXIAL APPARATUS



STUDENTS RUSH IN TO POSE FOR THE FIRST SNAP



AT CWRDM



BRIGHTENING UP YOUNG MINDS



A BREAK BETWEEN SESSIONS AT CPCRI



BRIEFING OF WORKS UNDERTAKEN AT SHREYAS BY
Er.RAJESH .P.D.

XXVI-BVHTZ

HOOR

HOOR



A DAY OF LEISURE AND FRAGRANCE AT THE ROSE GARDEN

RARS, PILICODE



A GLIMPSE OF BOAT RIDE AT THEKKADY LAKE



WATCH TOWER AT
SILENT VALLEY



ONE OF THE ELEVATED PEAKS AT VAGAMON



THE TUNNEL CONNECTING VAGAMON CHECKDAM AND IDUKKI
RESERVOIR {3.7Km LONG}



THE HEAD ASSEMBLY OF DRIP IRRIGATION SYSTEM AT WMUTC,
VELLANIKKARA



TILE DRAINAGE AT WMUTC, K.A.U.



BUBBLER IRRIGATION AT WMUTC, K.A.U.

XXI-BV-TCK

TORR
TORR



FEW THOUGHTFUL MOMENTS WITH OUR TEACHERS





AVIEW OF BEKAL FORT RUINS



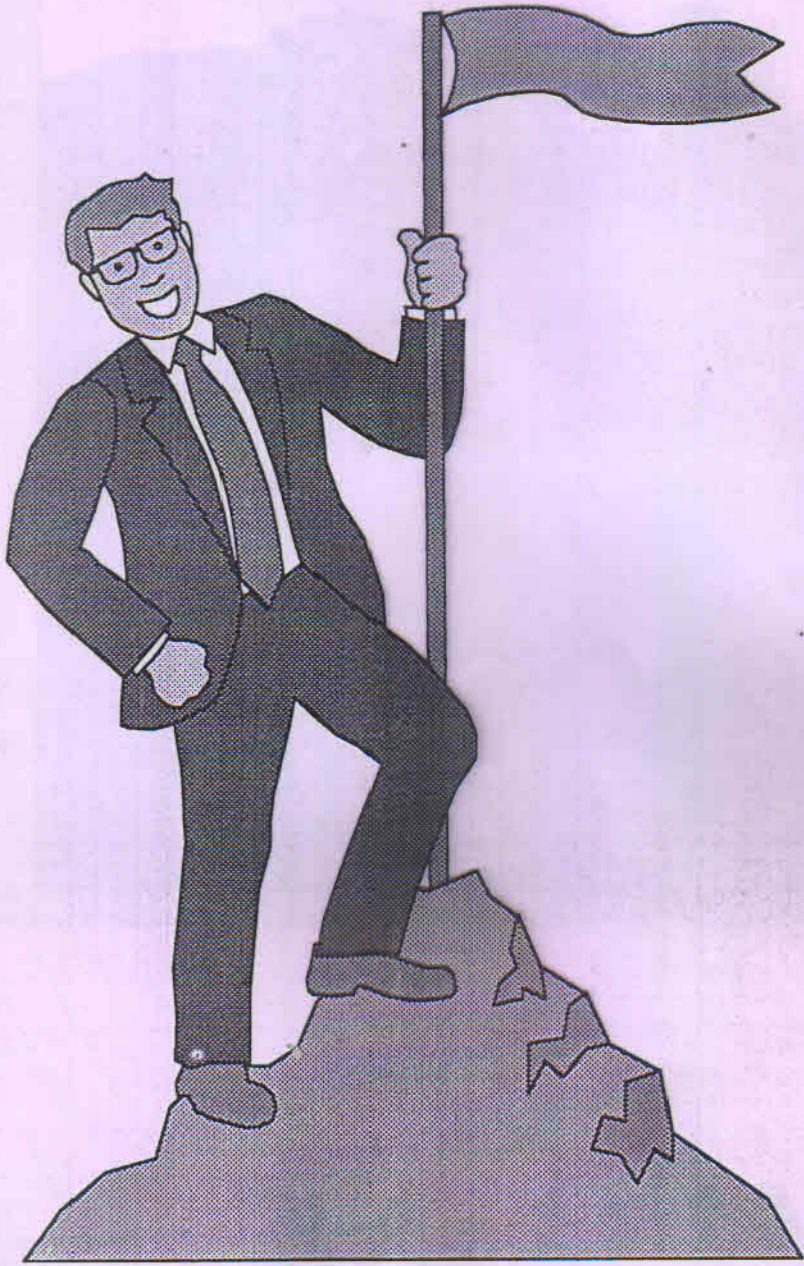
MEMORIES OF BOATRIDDING AND SCENIC BEAUTY AT POOKOD



NATURE'S SPLENDER AT SILENT VALLEY



THE TEA GARDENS ON THE WAY TO VAGOMON



SCALING NEW PEAKS!!!



TOWARDS THE PEAK



AN EVENING AT MARINEDRIVE, KOCHI



THE FAITHFUL DEVOTEE



ALL SMILING AFTER TEARS {LEECH ATTACK}-SILENT VALLEY



“FEW SNAPS WITH OUR TOUR LEADER -



AT LEAST THOSE WHO COULDN'T MAKE IT TO THE TOP”



WHO IS WHO? ?!



A SYNCHRONASE WITH THE MONKEY



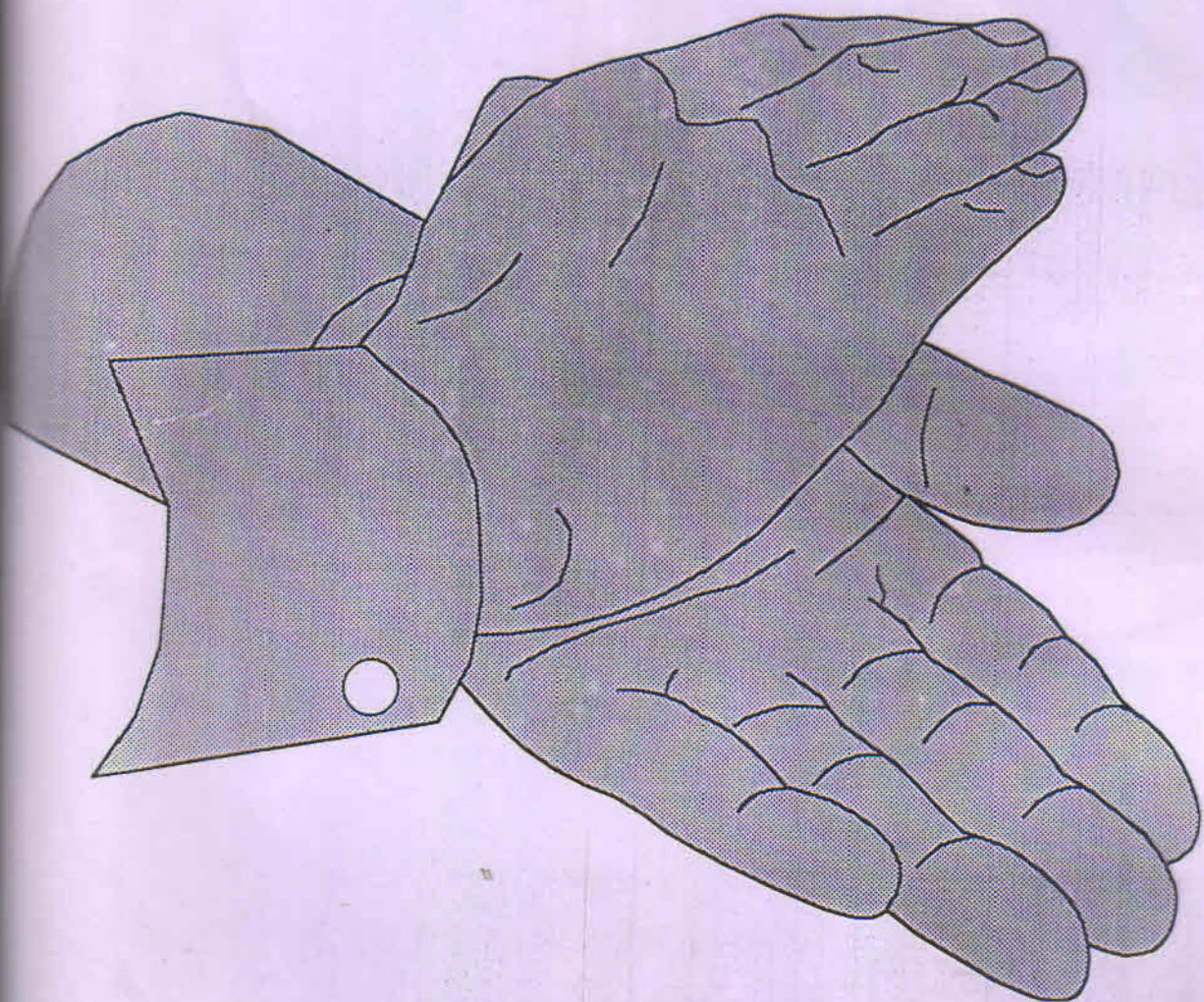
FINANCIAL BRAIN DRAIN



ON THE WAY FROM VAGAMON CATTLE CENTER



IN BETWEEN THE HALLA BALLA



TOTAL KNOCK OUTS



MOVING TO THE RYTHM



DANCE BY THE SDA SCHOOL STUDENTS TO ENTERTAIN US AT
TRIVANDRUM



ഒരു പാട്ട്.. നിർത്തിപ്പാട്ട്.

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THE CONCLUDING SESSION OF THE CAMPFIRE AT TRIVANDRUM

PERSONAL OPINIONS

TOUR LEADER
Er. K. V. LEVAN
Assistant Professor
Dept. of IDE
KCAET, Tavanur.

The hurdles faced during the planning and execution of the tour may be the spark behind this report. This may inspire 2000 batch for a better well planned All India Tour

ABIDA. P. S
Assistant Professor
PDC
KCAET, Tavanur.

"A good attempt by 2000 batch to bring out this study tour report. Let this be an aspiration for subsequent batches in the coming years"

1. ROSHNI RAJU
2000 - 02 - 01

A FROLIC SOME EXPERIENCE WOVEN ACROSS ZEAL AND ZEAL ; A RELIEF FROM THE MONOTONOUS CAMPUS LIFE!!!

2. REEBA MARIAM JOSHUA
2000 - 02 - 02

മനോഹരമായൊരു സന്ദർശനം നമ്മുടെ മനസ്സിൽ സമ്പന്നമാക്കിയിരിക്കുന്നു. അത് നമ്മുടെ അനുഭവസമ്പന്നമാക്കി. അതിനുള്ളിൽ സമഗ്രതയുടെയും സന്തോഷത്തിന്റെയും സമൃദ്ധി.

3. MANJUSHA MATHEW
2000 - 02 - 03

The feeling of being together was so nice. Beauty of God's own country filled serenity in my heart.

4. SMITHA. K. E.

2000 - 02 - 04

It was a very interesting and adventurous journey & we made a good friendship with leaches.

5. ANU. M. BABU

2000 - 02 - 05

It was an unforgettable experience, more thrilling and adventurous rather than informative. We could come across a no. of people, their life style and culture.

6. VINEETHA. M. ~~M~~

2000 - 02 - 06

It was a nice experience for me 'coz it was an unforgettable adventurous tour. The thrilling 10 days was a golden chance for us 'coz we had a very good 'relationship' with the leaches. Up to an extent it was informative also.

7. RAMYA. P

2000 - 02 - 07

Tour was nice and gave some unforgettable and tension-free days. ~~and~~ made a good intimacy among us.

8. VISHNUPRIYA. S

2000 - 02 - 08

Although there was some financial problems and organization problems the tour was excellent with everybody's co-operation. It was informative and thrilling. We could enjoy the beauty of our God's own country in 10 days.

9. SUSHIL SIVARAM

2000 - 02 - 09

TOTALLY AWESOME DUDE!!!!

10. SINI K It was an experience which would
2000 - 02 - 10 be a lesson for life long. By this tour
we could know one another closely. Beauty of nature,
thrilling journey and all above we all together made
this tour a memorable one.

11. SYAM KRISHNAN R

2000 - 02 - 12 "ചിന്താക്കരമായ ഒരു യാത്ര"
"ഒരു മനോഹരമായ ഒരു യാത്ര"
"ഒരു മനോഹരമായ ഒരു യാത്ര"

12. GEORGE MATHEW NEERACKAL

2000 - 02 - 13

Feelings of those eleven days, still flows like a
never ending stream in my dream.

13. BRINLY MANUEL

2000 - 02 - 14

Yeah, those eleven days of
being together, sharing glories and griefs
equally, doing and experiencing adventures,
sounds of laugh, excitement, gratitude and
self respect will remain as a 'hily' in the
'Garden of Life'.

14. SANFRED JOSEPH LUIZ
 2000-02-15 - "Ten days of non-stop heady action of responsibilities shouldered, of tasks undertaken, of burdens headed, of sorrows shared, of happiness enjoyed and most importantly of friendship cemented;"
 - A special thanx to Joe²-

15. SAREENA K. V
 2000-02-16
 Away from the books
 Among the friends
 Over the Mountains
 Inside the Caves.....
 Joyous, Exciting & Adventurous....-the tour was up to one's hearts content leaving behind a flake of sweet memories

16. SANTHI VASAVAN
 2000-02-17
 Eleven days of total 'BLISS' !!!
 Cruising through 'GODS OWN COUNTRY',
 filled with fun, joy, adventure, excitement,

17. NIDHI S.S
 2000-02-18
 ADVENTUREOUS,
 INFORMATIVE,
 JOYFUL
 TRIP

18. RABEES P.K
 2000-02-19
 "THE GREAT ESCAPE" from this boring campus. A fully sun-filled trip.

19. LIYA JOY
2000 - 02 - 21

മിസ്സമയം മുപ്പത് രുദിവിതത്തിൽ
നിന്നും തുടർ ദിവസങ്ങളെക്കാൾ
മോചനം പ്രകൃതിയുടെ രൂപത്തിൽ
പാനാമനങ്ങളിലൂടെ ഒരു ഹത്തിനോട്!

20. KAVITHA M-N
2000 - 02 - 22

യാത്രയുടെ മാധുര്യം,
കാഴ്ചകളുടെ ജളിർമ
അനുഭവങ്ങളുടെ സന്തോഷം.
കവീത.

21. JOE JOE L. BOVAS
2000 - 02 - 23

Thought not Jolly
Satisfied, Thanks God that all went
on well.

22. AMPILI A.G
2000 - 02 - 24

It was a time for enjoyment
It gave a time to know every person
&
It is a good memory.

23. KALA K.S
2000 - 02 - 25

"The thoughts of those eleven
baings days, the sweetest memories of the 'treasured
time' we have shared. It was an excellent trip
and a great relief from the monotonous campus!"

24. SREEJA S
2000 - 02 - 26

"വേനലിൻ വേനനം രജിനാ വിനമിതരകുവ-
നെത്തനം നമുഖാല, നന്ദിയിലെന്തിനം ലാല,
വിനമിതം ഹിരേന്തിനം നന്ദിനന്തിനം ദിടി
ഒരു നമുഖം തവസരയിനം.

25. ATHIRA S
2000 - 02 - 27

"മനസ്സിന്റെ ഉള്ളിലിൽ സൂക്ഷിക്കാനായി
അയിരും അർത്ഥം" കൂടുകാർ,
"അവരും മാധി ചരുകുവു നൂരിനങ്ങൾ
ഇരട്ടിൽ ഒരു വിനമം പോലെ"
Love, affection, Friendship,
എല്ലാം ഇതൊരു നമം.

26. MANISH KUMAR JHA
2000 - 02 - 28

10 days of fun and myriads
of unforgettable moments. It
was the closest view of 'God's
own country' that I've had. It
was like breathing in fresh air after a long jail term.
Boating, trekking and leeches were amusing like never
before. Your was also a soul searching journey for me
from which I came out with further refinements.

27. SHAILESH KUMAR SINGH
2000 - 02 - 29

These ten days of study tour was
really unforgettable. Here I've lot of
new experiences and enjoyment
and I could able to see the
interior beauty of Kerala.

DR. K. JOHN THOMAS
Dean, Faculty of
Agri. Engg & Tech
KAU, Tavanur.

Going together is only a
beginning, keeping together
is progress & working together
is success. Good Luck.

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