

E. V. RANGA REDDY

(Iron ore and Laterite Mine – 201.914 Ha)

**SY. NO. 172, PAGADALAPALLI VILLAGE,
PENDLIMARRI MANDAL, YSR DISTRICT, ANDHRA PRADESH**

3. Public Consultation

SUBMITTED BY

**E. V. Ranga Reddy
Plot No. 84, Ramky pearl,
Shatavahana Nagar, KPHB Colony,
Hyderabad – 500 072
Email: edulavreddy@gmail.com**

STUDIES AND DOCUMENTATION BY

**TEAM Labs and Consultants
B-115 to 117 & 509, Annapurna Block,
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Hyderabad-500 038.
Phone: 040-23748 555/616,
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**SUBMITTED TO
MINISTRY OF ENVIRONMENT AND FORESTS & CLIMATE CHANGE,
GOVERNMENT OF INDIA
INDIRA PARYAVARAN BHAWAN, ALIGANJ, JOR BAGH,
LODHI COLONY, NEW DELHI**

CHAPTER 1.0 PUBLIC CONSULTATION

1.0 Introduction

Public hearing for the project was conducted on 27.10.2016, from 10.00 A.M onwards at Survey number 172, pagadalapalli village, pendlimarri mandal, YSR district. The chairman of the public hearing was the Collector and District Magistrate Sri K.V Satyanarayana, IAS, while the member convener was Sri A. Narendra Babu, Environmental Engineer, APPCB, Regional office, Tirupati.

1.1 Advertisement

Advertisement for the public hearing was notified in two prominent news papers namely: Sakshi, a Telugu Newspaper on 06.07.2016 and Indian Express, an English Newspaper on 06.07.2016 and was postponed by the district Collector. Again Advertisement for the public hearing was notified in two prominent news papers namely: Sakshi, a Telugu Newspaper on 25.09.2016 and Indian Express, an English Newspaper on 25.09.2016.

Minutes of the meeting

The minutes of the public hearing along with the attendance sheet is enclosed.

1.2 Concerns Raised By Public

The concerns expressed by public during the public hearing meeting and the responses of proponent are presented in [Table 1.1](#).

Table 1.1 Concerns Raised in Public Hearing and Responses

S. No	Issue raised by	Issue	Proponent's Response
1	Sri R.Gangi Reddy Pagadalapalli	<p>➤ He expressed his unhappiness on establishment of the proposed mining project at an area of 201.914. Ha this may cause scarcity of fodder to the cattle of surrounding villages. Due to the mining operations the dust nuisance may occur in the surrounding agriculture lands which may also be a problem for cattle.</p> <p>➤ He also expressed his unhappiness on the job opportunities provided by the mining authorities to the local public so far. He also expressed his apprehensions on blasting operations which may cause damage to the surrounding bore wells. He also informed the District Collector, that mining authorities are not allowing to the surrounding villages to the mining area to avail gravel for the usage of their own needs.</p>	<p>➤ With regard to Air Pollution, Industry proposed to develop greenbelt on dump yard and also water sprinkling system will put on operation continuously along with providing bag filter to the crushing unit to arrest dust pollution.</p> <p>➤ Cattle of surrounding villages will not be allowed due to safety reasons. The allocated land is not a classified permanent pastures and other grazing land area.</p> <p>➤ The management assured to engage hired vehicles to transport the material and also to provide employment opportunities to the eligible people hailing from surrounding villages on priority basis.</p> <p>➤ The proponent assured that the blasting activity will have minimal impact outside the mine lease area, as the nearest borewell from working mine areas is 800 meters.</p> <p>➤ Transport of gravel will not be allowed by mines and geology department, as the mine has low grade iron ore.</p>

S. No	Issue raised by	Issue	Proponent's Response
2.	Sri. C. Ram Mohan Reddy Nandi Mandalam	➤ He expressed his unhappiness even though many mining projects already exist in this area and the proper revenue is not getting to the concern Panchayaths. Hence, there is no development activity taking place in the surrounding villages. He also expressed his unhappiness on lack of information with regard to Environmental Public hearing being conducted.	<ul style="list-style-type: none"> ➤ Royalty is being paid to the mines department and tax to District mineral development fund. ➤ CSR activities will be taken up by management with a fund of Rs.30 lakhs / 5 years for development of surrounding villages as per the suggestion of the public representatives and revenue authorities. ➤ Public hearing paper advertisement given in 25.09.2016 in sakshi, 25.09.2016 in Indian Express papers and copy of EIA /EMP Reports are submitted to District collector and Panchayat office etc.
3	Sri A. Gangi Reddy Pagadalapalli	➤ He expressed on the occasion that the crusher was operated earlier which caused a lot of air pollution in the surrounding area. He also expressed his concerns on shrinkage of loose soil resulting damage to the bore wells due to mining operations.	<ul style="list-style-type: none"> ➤ Water sprinkling in the dump yard, development of greenery surrounding crusher area, and provision of bag filter to the crusher to mitigate dust pollution is proposed. ➤ The district collector suggested that the local geology department should conduct a study and clarify the apprehensions of the villagers regarding shrinkage of soil. The report is received and the conclusion as mentioned in the report is "
4.	Y. Chinna Sidda Reddy	➤ He expressed his apprehensions on mining operations which may cause	➤ Mining operations which include blasting will have an impact within the mine lease area. Vibrations due to these

S. No	Issue raised by	Issue	Proponent's Response
	Cherlopalli	damage to the surrounding bore wells as two bore wells of his were already damaged.	blasting operations will be limited to 20 m and informed that the bore wells of surrounding people could not be damaged due to the blasting operations.
5	Sri Y.Pedda Sidda Reddy Cherlopalli	➤ He requested the people to clear their doubts/issues if any with regard to environment in the presence of District Collector.	➤ Proponent assured implementation of all pollution control measures.
6.	Sri Siva Reddy Kotha Sangatipalle	➤ While speaking on the occasion he informed that there are 15,000 to 20,000 of cattle are depending upon these lands for grazing and once this mining industry comes in to operation due to air pollution and non availability of land for grazing and the cattle may seriously get affected by this.	➤ Water sprinkling in the dump yard, development of greenery surrounding crusher area, and provision of bag filter to the crusher to mitigate dust pollution is proposed. The allocated land is not a classified permanent pastures and other grazing land area.
7.	Sri Y. Chenna Kesava Reddy T.Sunkesula village, Yerraguntla	➤ While welcoming the project he explained the importance of industrialization and requested the public to approach the District Administration headed by the District Collector to solve	➤ Proponent assured implementation of all pollution control measures.

S. No	Issue raised by	Issue	Proponent's Response
	Mandal	their problem if any due to the establishment of this project.	
➤ Commitments to District Collector			
1		➤ To engage vehicles (transport) belonging to local villagers on top priority	➤ The proponent agreed to engage vehicle (transport) belonging to local villagers on top priority for transporting the material.
2		➤ Emplacement opportunities in unskilled category should provide to the local villagers only	➤ Local villagers are preferred for employment.
3		➤ A social survey can be conducted for finding out eligible educated candidates for them skill development programs shall be conducted to provide job opportunities to local public.	➤ The proponent agreed to conduct a social survey for finding out eligible educated candidates and impart skill development training to provide a suitable job opportunity by engaging third party training group.
4		➤ A thorough study can be made and to submit a report on shrinkage of land loose soil at the depth of 100 ft with concern government departments viz dept of mines and geology and other related govt departments to clarify the	➤ A copy of the report regarding reported shrinkage of soil is presented as annexure.

S. No	Issue raised by	Issue	Proponent's Response
		apprehensions of the surrounding villages	
5		➤ The management must take up development activities on surrounding villages with CSR funds on need based without any delay.	➤ The proponent agreed to take up development activities in surrounding villages with Rs.30 lakhs/5 years. The development activities will be identified in consultation with public representatives and revenue authorities.

Proceedings of the Environmental Public Hearing conducted for the Iron Ore and Laterite Mine (201.914 Ha) by Sri. E.V Ranga Reddy located at Sy.No: 172, Pagadalapalli village, Pendlimarri (M), YSR District conducted on 27-10-2016 at 10.00 AM at proposed mine site.

In accordance with the Notification No. S.O. 1533 dt. 14.09.2006 of Ministry of Environment & Forests, Government of India, New Delhi, the Environmental Engineer, Andhra Pradesh Pollution Control Board, Regional Office, Tirupati issued a notification pertaining to the Environmental Public Hearing on establishment of an Iron Ore and Laterite Mine (201.914 Ha) by Sri. E.V Ranga Reddy located at Sy.No: 172, Pagadalapalli village, Pendlimarri (M), YSR District in leading newspapers inviting suggestions, views, comments and objections of the general public and the same was conducted on 27.10.2016 at 10.00 a.m and the minutes of the meeting are as follows:

The following Officials attended the Environmental Public Hearing :

- 1) **Sri K.V. SATYANARAYANA, I.A.S.,** Collector & District Magistrate, Kadapa and the Chairman of the Public Hearing.
- 2) **Sri A.NARENDRA BABU,** Member Convener, Environmental Engineer, APPCB, Regional Office, Tirupati.

The following Departmental Officials attended the hearing:

Sl.No.	Name & Designation
1)	Sri. S. Chinna Ramudu, Revenue Divisional Officer, Kadapa
3)	Sri P.V.Kishore Reddy, Asst. Environmental Engineer, APPCB, RO, Tirupati

The following representatives of the industry were present:

Sl.No.	Name & Designation
1)	Sri M. Sreenivasulu Reddy, M/s Team Labs, Hyderabad, Environmental Consultant of the Project.
2)	Sri E.V. Ranga Reddy, Proponent of the Project.

The **Environmental Engineer, A.P. Pollution Control Board, Tirupati** welcomed the District Collector, YSR District and Chairman of the Environmental Public Hearing Panel and general public to the Public hearing and explained the need to conduct Public Hearing for the proposed project as per the Ministry of Environment & Forests, Govt. of India, New Delhi notification 2006.

He also explained as per the Terms of Reference (TOR), Ministry of Environment & Forest, Govt. of India, Dated: 18.07.2014, it is necessary to get the public hearing conducted for this project in accordance with the procedure prescribed under the EIA Notification 2006 in the process of obtaining the Environment Clearance.

Then he requested the Environmental Consultant of the proposed Project / proponent to explain the salient features of the proposed project for the information of general public gathered at the venue of Environment Public Hearing.

Sri M. Sreenivasulu Reddy, M/s Team Labs, Hyderabad, Environmental Consultant of the proposed Project, while speaking on the occasion explained to the general public the proposed mining project is proposed to excavate low grade Iron ore of 2,74,000 Tons per annum and Laterite of 62,000 Tons per annum by manually in initial stage without drilling & blasting. Later on after reaching 20 mts depth it is to proposed to carry out blasting operations by using slurry explosives and controlled blasting methods.

He also informed that they have collected base line data from 10 km radius around the project site to assess the impacts arising from the proposed mining activity. The concentration of various parameters of Air quality of the study are found to be well within the norms prescribed by National Ambient Air Quality. The

noise levels recorded at all stations were found to be less than standards prescribed standards.

Regarding, water consumption and wastewater generation, the water requirement for this mining activity will be 15 KLD. Industry proposed generate wastewater of 6 KLD from domestic section and proposed to treat in septic tank followed by soak pit. Remaining water proposed to used for water sprinkling systems & Greenbelt development.

Regarding the solid waste generated in the form of gravel and top soil will be stored in the Northern side of the lease area by constructing retaining walls to prevent sliding and wash of the material. He also informed to the public due to establishment of the project 184 Nos of the job opportunities will be provided. He further informed that a budget of 30 Lakhs will be spent for CSR activities on the surrounding villagers.

Then the District Collector, YSR Dt While speaking on the occasion informed to the public the proposed project is a low grade iron ore and laterite open cast mine. He directed the Environmental Consultant of the project to explain in detailed about the proposed project and to clarify environmental concerns raised during public hearing to the knowledge of the surrounding villagers.

He also requested the general public after the presentation by the Environment Consultant about the project, to express their opinions/ suggestions, objections, if any, on the proposed project and the same can be get clarified by the Environment consultant of the project.

Sri R. Gangi Reddy, r/o Pagadalapalli while speaking on the occasion expressed his unhappiness on establishment of the proposed mining project at an area of 201.914 Ha which may cause scarcity of fodder to the cattle of surrounding villages. Due to the mining operations the dust nuisance may occurred on the surroundings agriculture lands which may also a problem for cattle.

He also expressed his unhappiness on the job opportunities provided by the mining authorities to the local public so far. He also expressed his apprehensions on

blasting operations which may cause damage to the surrounding bore wells. He also informed the District Collector, that mining authorities are not allowing to the surrounding villages to the mining area to avail gravel for the usage of their own needs.

Sri. C. Ram Mohan Reddy r/o Nandi Mandali expressed his unhappiness even though many mining projects are existing in this area and the proper revenue is not getting by the concern panchayaths. Hence, there is no development activities took place in the surrounding villages. He also expressed his unhappiness on lack of information with regard to Environmental Public Hearing being conducted.

Sri. A. Gangi Reddy r/o Pagadalapalli while speaking on the occasion informed that the crusher was operated earlier which was causing lot of air pollution on surroundings. He also expressed his concerns on shrinkage of loose soil resulting damage to the bore wells due to mining operations.

Sri Y. Chinna Sidda Reddy r/o Cherlopalli expressed his apprehensions on mining operations which may cause damage to the surrounding bore wells as two number of bore wells belonging to him were already damaged.

Sri Y. Pedda Sidda Reddy r/o Cherlopalli requested the people to get clear their doubts / issues if any with regard to environment in the presence of District Collector.

Sri Siva Reddy r/o Kotha Sangati palle while speaking on the occasion informed that there are 15,000 to 20,000 of cattle are depending upon these lands for grazing and once this mining industry comes in to operation due to the air pollution and non availability of land for grazing the cattle may seriously suffered.

Sri Y. Chenna Kesava Reddy r/o T.Sunkesula (V), Yerraguntla Mandal, while welcoming the project he explained the importance of industrialization and requested the public to approach the District Administration headed by the District Collector to solve their problems if any due to the establishment of this project.

Then the District Collector directed the Environmental Consultant of project and Sri E.V. Ranga Reddy, proponent of the project to answer in detailed on the above raised issues by the public in detailed.

While answering the issued raised by the public **Sri E.V. Ranga Reddy** proponent of the project and **Sri M. Sreenivasulu Reddy**, M/s Team Labs, Hyderabad, Environmental Consultant of the Project answered as following:

1. With regard to blasting, till 20 mts blasting operations will be carried out manually and after 20 mts controlled blasting will be introduced. Vibrations due to these blasting operations will be limited to 2 mts and informed that the bore wells of surrounding people could not be damaged due to the blasting operations.
2. With regard to air pollution measures, industry proposed to develop good greenbelt on dump yard and also water sprinkling system will put on operation continuously to arrest dust pollution.
3. Cattle of surrounding village could not be allowed due to safety reasons.
4. The management assured to engage tippers (hired vehicles) to transport the material and also to provide employment opportunities to the eligible people hailing from surrounding villages on priority basis.
5. The management assured that they will provide bag filter to the crushing unit to arrest any dust pollution from the crushing unit.
6. The management has also agreed to supply gravel to the surrounding people for development works on their own as per the request of the surrounding villagers.
7. CSR activities will be taken up by the management for development of surrounding villages as per the suggestion of the villagers on priority basis.

Then the District Collector, YSR Dt while speaking on the occasion expressed the importance of the industrialization for all round development of the country to eradicate the poverty in the country. He also explained how developed countries adopted industrialization in place of agriculture. The District Collector also informed to the public an amount of Rs 70.0 Lakhs will be collected from the management in the form of District Mineral Development Fund and Rs 30.0 Lakhs of CSR fund will be totally spent for the development activities at surrounding villages. He also assured to extend his co-operation from Government side in the form of gap funding if necessary.


Then he asked the management of Sri. E.V Ranga Reddy located at Sy.No: 172, Pagadapalli village, Pendlimarri (M), YSR District a written commitment on the assurance made during the public hearing viz.,

1. To engage vehicles (transport) belonging to local villagers on top priority.
2. Employment opportunities in unskilled category should provide to the local villagers only.
3. A social survey can be conducted for finding out eligible educated candidates, for them skill development programs shall be conducted to provide job opportunities to the local public.
4. A thorough study can be made and to submit a report on shrinkage of land, loose soil at the depth of 100 feet with concern Govt. departments viz., Dept. of Mines & Geology and other related Govt. departments to clarify the apprehensions of the surrounding villagers.
5. The management must take up development activities on surrounding villages with CSR funds on need based without any delay.

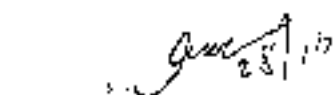
The proponent of the project Sri E.V. Ranga Reddy have agreed to give a written commitment on the above suggestions made by the District Collector in connection with the concerns raised by the public during public hearing and the same is herewith enclosed along with the minutes.

Then The District Collector and Chairman of the Environmental Public Hearing Panel while summed up of the proceedings of the Environmental Public Hearing in vernacular language and he assured the public, that all the opinions/views raised by the public during Environmental Public Hearing will be brought to the notice of Ministry of Environment & Forest, Govt. of India, New Delhi for taking decision.

On seeing no more suggestions / objections from the public the District Collector and Chairman of the Environmental Public Hearing was ended the Environmental Public Hearing with vote of thanks by Assistant Environmental Engineer, AP Pollution Control Board, Tirupati.



A. Narendra Babu,
Environmental Engineer
& Member Convener,
APPCB, Regional Office,
Tirupati.



K.V. Satyanarayana,
Collector & District Magistrate, Kadapa
and the Chairman of the Public Hearing

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14.

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16. $\frac{1}{2} \log \frac{1}{2}$

Dr. E.V. RANGA REDDY, Ph.D

Plot No. 84, Ramky Pearl Opp. Shatavahana High School, HMT Shatavahana Nagar,
Kukatpally, Hyderabad - 500 072, Telangana.

Mobile : +91 9440896772

Email : eduvireddy@gmail.com

Date: 28.10.2016.

Written commitment on the issues raised by the public during
Environmental Public Hearing of Sri. E.V Ranga Reddy located at Sy.No: 172,
Pagadalapalli village, Pendlimarri (M), YSR District held on 27.10.2016 at 10.00
am at the mining site.

1. Agreed to engage vehicles (transport) belonging to local villagers on top priority for transporting the material etc.,
2. Agreed to provide total employment opportunities in unskilled category to the local villagers only.
3. Agreed to conduct a social survey for finding out eligible educated candidates, to train them by conducting skill development programs to provide suitable job opportunities to the local public.
4. Agreed to conduct thorough study report on shrinkage of approaching road by involving concerned expert along with AD, Mines & Geology, Kadapa to address the apprehensions of the surrounding villagers within one month.
5. Agreed to take up development activities on surrounding villages with CSR funds on priority based activities without causing any delay.

In my presence
21/10
DISTRICT COLLECTOR,
KADAPA.

Authorised Signature

EV RANGA REDDY

[Signature]
Proprietor

Attendance Register of Environmental Public Hearing

M/s. E.V. Rangar Reddy Iron ore & Lignite Mine
Sy.No. 172 Pagadaballli (V) Padliharri (M)

Date 27/10/2016 Y.S.No. 1
Time: 10:00 AM Venue: Proposed Site

- ① Smt. K. V. Satyanarayana, IAS
District collector & District magistrate. *[Signature]*
- ② S. Channa Kannaiah, R.D.O., Kadapa *[Signature]* 27-10-2016
- ③ A. Narendra Babu, E.C., APPCA *[Signature]* 27-10-2016
- ④ S. G. *[Signature]*
- ⑤ Y. Channa Kesava Reddy
T. Sun Kesula
Jointed member *[Signature]*
- ⑥ D. *[Signature]*
- ⑦ C. Kannaiah Reddy *[Signature]*
- ⑧ A. Mah Reddy, R.D.O. *[Signature]*
- ⑨ R. Gangi Reddy, Pagadaballli *[Signature]*
- ⑩ A. Channa Reddy, Mandinicholam, R.D.O. *[Signature]*
- ⑪ Y. Channa Sridhar Reddy Chakrapalli *[Signature]*
- ⑫ A. Gangi Reddy, Pagadaballli *[Signature]*
- ⑬ Y. Channa Kesava Reddy
T. Sun Kesula *[Signature]*
- ⑭ A. Channa Reddy, Mandinicholam, R.D.O. *[Signature]*
- ⑮ S. Channa Reddy, Mandinicholam, R.D.O. *[Signature]*

- | | | |
|-----|--------------------------|--------------|
| 17. | R. రమ్య రెడ్డి | చిన్న పాఠశాల |
| 18. | B. Sreenivasulu | గ్రేవోల్డ్ |
| 19. | M. Sreehari, Pagadapalli | H. Sreehari |
| 20. | L. వంశీదేవి, చిన్నపల్లి | L. వంశీదేవి |
| 21. | Vooturam Suresh | V. Suresh |



ANDHRA PRADESH POLLUTION CONTROL BOARD

Regional Office - Tirupati- 517502

NOTIFICATION OF ENVIRONMENTAL PUBLIC CONSULTATION

In accordance with the Notification No. S.O. 1533, Dt 14-09-2006 of the Ministry of Environment & Forests, Government of India, A.P. Pollution Control Board hereby notifies an Environmental Public consultation on the proposed Mining of Iron Ore & Laterite with proposed capacity of 2,74,000 Tons of Iron Ore per Annum and 62,000 Tons of Laterite per Annum of M/s. E.V.Ranga Reddy at Sy.No: 172, Pagadalapalli village, Pendlimarri (M), YSR District. The details of the project activities are given by the proponent are as follows:

1. Name of the company with Address & Phone Number.	M/s. E.V.Ranga Reddy, Plot No. 84, Ramky Pearl, Shatavahana Nagar, KPHB Colony, Hyderabad - 500072, Ph: 9966525277, 9440896772
2. Location of the proposed project with extent.	Sy.No: 172, Pagadalapalli village, Pendlimarri (M), YSR District Extent - 201.914 Ha
3. Name of the Authorised person to be contacted with address and Telephone No.	Sri. E.V.Ranga Reddy, M/s. E.V.Ranga Reddy, Plot No. 84, Ramky Pearl, Shatavahana Nagar, KPHB Colony, Hyderabad - 500072, Ph: 9966525277, 9440896772 Email: edulavreddy@gmail.com
4. Capital cost of the Proposed project.	Rs 3.0 Crores
5. Line of Activity with Capacity:	Mining of Iron Ore & Laterite with proposed capacity of 2,74,000 Tons of Iron Ore per Annum and 62,000 Tons of Laterite per Annum.
6. Date, Time & Venue of the Public Hearing	Date : 27.10.2016, Time : 10.00 AM Venue : The Proposed project site at Sy.No: 172, Pagadalapalli village, Pendlimarri (M), YSR District.

7. Place(s) at which executive summary & REIA report of the project are made available for the general Public.

- Office of the Collector & District Magistrate, Kadapa, YSR District.
- Office of the Chief Executive Officer, Zilla Parishad, Kadapa, YSR District
- Office of the General Manager, District Industries Centre, Kadapa, YSR District
- Office of the Revenue Divisional Officer, Kadapa, YSR District
- Office of the Regional Office (Southern Zone), GOI, MOE&F, Kendriya Sadan, IV floor, Environment & Forest Wings, Koramangala, Bangalore-34.
- Office of the A.P. Pollution Control Board, Board Office, Sanath Nagar, Hyderabad.
- Office of the A.P. Pollution Control Board, Zonal Office, Near Krishna Nagar Rly Gate, Kurnool.
- A.P. Pollution Control Board, Regional Office, N.T. Road, Tirupati.
- Office of the Tahsildar, Pendlimarri Mandal, YSR District.
- Office of the MPDO, Pendlimarri Mandal, YSR District.
- Office of the Pagadalapalli Gram Panchayath, Pendlimarri Mandal, YSR District.

Concerns of the local affected persons, and all the other concerned persons (as defined at Serial No 7 III (ii) a and b of MoE&F Notification No.S.O.1533 dated 14.09.2006) having a plausible stake in the Environmental aspects of the proposed activity are invited within 30 days from the date of publication of this Notification. All the above persons can make written responses to the undersigned Officer of A.P. Pollution Control Board. All these persons can also participate in the Environmental Public Consultation on the date and at the venue mentioned above.

Place : Tirupati
Date : 25.09.2016

Sd/-
Environmental Engineer,
A.P. Pollution Control Board, Regional Office, Tirupati.

లో నిజంగా అవసరం ఉండే అప్పుడు...
కి పుట్టకపోవడంతో విచారం వ్యక్తం చేస్తు...
ప్రభావం వారి వ్యాపారాలపై పడుతుండ...
దోషన చెందుతున్నారు.



M.C.N (Gastroenterology & Hepatology)
PDCC (Vascular Surgery).
HOD- Liver Transplantation
& HPB Surgery

770 233 1100
929 605 7459



ఆంధ్రప్రదేశ్ కాలుష్య నియంత్రణ మండలి

ప్రాంతీయ కార్యాలయం, తిరుపతి-517502

పర్యావరణ ప్రజాభివ్రాంతు సేకరణ ప్రకటన

పర్యావరణ మరియు అటవీ మంత్రిత్వ శాఖ, భారత ప్రభుత్వం యొక్క ప్రకటన నెం.ఎస్.ఓ. నెం.1533 తేది:14.09.2006 అనుసరిస్తూ ప్రతిపాదన
అయిన మెన్సర్స్ ఇ.వి.రంగారెడ్డి వారు ఆంధ్రప్రదేశ్ వైఎస్.ఆర్. జిల్లా, పెండ్లిమర్రి మండలం, పగడాలపల్లి గ్రామం సర్వేనెం.172 లో సంవత్సరానికి 2,74,000
టన్నుల ఇసుప ఖనిజాన్ని మరియు 62000 టన్నుల లాటరైట్ మైనింగ్ లీజు కొరకు ప్రజాభిప్రాయ సేకరణకై ఈ నోటిసు జారీ చేయడమైనది.సదరు ప్రాజెక్టు
కార్యకలాపాల వివరములు ప్రతిపాదకులు దిగువ తెలిపిన విధంగా సమర్పించినారు.

1. కంపెనీ పేరు, చిరునామా & ఫోన్ నెంబర్లు	మెన్సర్స్ ఇ.వి.రంగారెడ్డి, ప్లాటు నెం.84 రాంకీ పెర్ట్, శాతవాహన నగర్, తె.పి.హెచ్.బి కాలనీ, హైదరాబాద్-500072, ఫోన్:9966525277, 9440896772
2. కార్యకలాపాల నిర్వహణకు ప్రతిపాదించబడిన ప్రదేశము & మైనింగ్, విస్తీర్ణం	సర్వేనెం.172, పగడాలపల్లి గ్రామం, పెండ్లిమర్రి మండలం, వైఎస్ఆర్ జిల్లా, విస్తీర్ణం 201.914 Ha సంవత్సరానికి
3. సంప్రదించవలసిన సంబంధిత అధికారి పేరు మరియు ఫోన్ నెంబరు	శ్రీ ఇ.వి.రంగారెడ్డి, ప్రాప్రయిటర్ మెన్సర్స్ ఇ.వి.రంగారెడ్డి ప్లాట్ నెం.84, రాంకీ పెర్ట్ శాతవాహన నగర్, తె.పి.హెచ్.బి కాలనీ, హైదరాబాద్- 500072, ఫోన్: 9966525277, 9440896772 .Email: edulavreddy@gmail.com
4. కార్యకలాపాలకు కేటాయించిన పెట్టుబడి	రూ.3.0 కోట్లు
5. కార్యకలాపాల వివరములు	ఏడాదికి 274,000 టన్నుల సామర్థ్యం గల ఇసుప ఖనిజం & 62,000 టన్నుల సామర్థ్యం గల లాటరైట్ వెలికి తీయుట గురించి
6. ప్రజాభిప్రాయ సేకరణ తేది, సమయం మరియు ప్రదేశం	తేది: 27.10.2016 సమయం: ఉ.10గంటలకు వేదిక: మైనింగ్ ప్రాజెక్టు స్థలం సర్వేనెం.172, పగడాలపల్లి గ్రామం, పెండ్లిమర్రి మం., వై.ఎస్.ఆర్.జిల్లా

7. ప్రతిపాదనకు సంబంధించిన వివరములు సదరు ప్రాజెక్ట్ ఎగ్జిక్యూటివ్ సమ్మరీ & REIA రిపోర్టు ప్రజల సౌకర్యార్థం ఈ క్రింది కార్యాలయాల్లో లభ్యపరచడమైనది.
- ఎ) జిల్లా కలెక్టరు & మేజిస్ట్రేట్ వారి కార్యాలయము, వైయస్ఆర్ జిల్లా
 - బి) చీఫ్ ఎగ్జిక్యూటివ్ అధికారి వారి కార్యాలయము, జిల్లా పరిషత్, వైయస్ఆర్ జిల్లా
 - సి) జనరల్ మేనేజర్ వారి కార్యాలయము, జిల్లా పరిశ్రమల కేంద్రం, వైయస్ఆర్ జిల్లా
 - డి) రెవిన్యూ డివిజన్ లో అధికారి వారి కార్యాలయము, కడప, వైయస్ఆర్ జిల్లా
 - ఇ) ప్రాంతీయ (సదరన్ జోన్) పర్యావరణ, అటవీ మంత్రిత్వ శాఖ, భారత ప్రభుత్వం, కేంద్రీయ సదన్,4వ అంతస్తు ఎన్సైరన్మెంట్ అండ్ ఫార్వర్డ్స్ వింగ్స్, కోరమంగళ, బెంగళూరు -34
 - ఎఫ్) ఆంధ్రప్రదేశ్ కాలుష్య నియంత్రణ మండలి, బోర్డ్ ఆఫీస్, సనత్ నగర్, హైదరాబాద్ - 500018
 - జి) ఆంధ్రప్రదేశ్ కాలుష్య నియంత్రణ మండలి, జోనల్ కార్యాలయము, కృష్ణా నగర్ రైల్వే గేట్ దగ్గర, కర్నూలు
 - హెచ్) ఆంధ్రప్రదేశ్ కాలుష్య నియంత్రణ మండలి, ప్రాంతీయ కార్యాలయము, ఎన్.టి.రోడ్డు, తిరుపతి
 - ఐ) తహశీల్దారు వారి కార్యాలయము, పెండ్లిమర్రి మండలం, వైయస్ఆర్ జిల్లా
 - జె) మండల పరిషత్ అధికారి వారి కార్యాలయం, పెండ్లిమర్రి మండలం, వైయస్ఆర్ జిల్లా
 - కె) పగడాలపల్లి గ్రామ పంచాయతీ కార్యాలయము, పెండ్లిమర్రి మండలం, వైయస్ఆర్ జిల్లా

కేంద్ర పర్యావరణ మరియు అడవుల మంత్రిత్వ శాఖ ప్రకటన నెం.ఎస్.ఓ. నెం.1533 తేది: 14.09.2006లో పేర్కొనబడిన (పరుస క్రమము 7III(ii) (ఎ) మరియు (బి)లలో) రీతిలో ఈ ప్రతిపాదన కర్మాగారము వలన నష్టపోవు ప్రజల నుండి మరియు పర్యావరణ సంబంధిత అంతములు వల్ల ప్రభావితమవు ప్రజల నుండి వ్యాఖ్యలు, అభ్యంతరములు ఏవైనా ఉన్నట్లయితే వాటిని లిఖిత పూర్వకంగా ఈ ప్రకటన వెలువడిన తేది నుండి 30 రోజులలోపు ఆంధ్రప్రదేశ్ కాలుష్య నియంత్రణ మండలి ప్రాంతీయ అధికారి,తిరుపతి వారికి తెలుపవచ్చును. అటువంటివారు, పైన పేర్కొనబడిన తేదీన ప్రజాభిప్రాయ సేకరణ సదస్సులో పాల్గొని తమ అభిప్రాయములు స్వయముగా తెలుపవచ్చును.

సం/-
వ్యవస్థాపక అంబసిటర్,
ఆంధ్రప్రదేశ్ కాలుష్య నియంత్రణ మండలి, ప్రాంతీయ కార్యాలయము, తిరుపతి

ప్రదేశం : తిరుపతి
తేది : 25.09.2016



ANDHRA PRADESH POLLUTION CONTROL BOARD

Regional Office - Tirupati- 517502

NOTIFICATION OF ENVIRONMENTAL PUBLIC CONSULTATION

In accordance with the Notification No. S.O. 1533, Dt. 14-09-2006 of the Ministry of Environment & Forests, Government of India, A.P. Pollution Control Board hereby notifies an Environmental Public consultation on the proposed Mining of Iron Ore & Laterite with proposed capacity of 2,74,000 Tons of Iron Ore per Annum and 62,000 Tons of Laterite per Annum of M/s. E.V.Ranga Reddy at Sy.No: 172, Pagadalapalli village, Pendlimarri (M), YSR District. The details of the project activities are given by the proponent are as follows:

1. Name of the company with Address & Phone Number.	M/s. E.V.Ranga Reddy, Plot No. 84, Ramky Pearl, Shatavahana Nagar, KPHB Colony, Hyderabad - 500072, Ph: 9966525277, 9440896772
2. Location of the proposed project with extent.	Sy.No: 172, Pagadalapalli village, Pendlimarri (M), YSR District Extent - 201.914 Ha
3. Name of the Authorised person to be contacted with address and Telephone No.	Sri. E.V.Ranga Reddy, M/s. E.V.Ranga Reddy, Plot No. 84, Ramky Pearl, Shatavahana Nagar, KPHB Colony, Hyderabad - 500072. Ph: 9966525277, 9440896772 Email: edulavreddy@gmail.com
4. Capital cost of the Proposed project.	Rs 3.0 Crores
5. Line of Activity with Capacity:	Mining of Iron Ore & Laterite with proposed capacity of 2,74,000 Tons of Iron Ore per Annum and 62,000 Tons of Laterite per Annum.
6. Date, Time & Venue of the Public Hearing	Date : 08.08.2016, Time : 10.00 AM Venue : The Proposed project site at Sy.No: 172, Pagadalapalli village, Pendlimarri (M), YSR District.

7. Place(s) at which executive summary & REIA report of the project are made available for the general Public.

- Office of the Collector & District Magistrate, Kadapa, YSR District.
- Office of the Chief Executive Officer, Zilla Parishad, Kadapa, YSR District
- Office of the General Manager, District Industries Centre, Kadapa, YSR District
- Office of the Revenue Divisional Officer, Kadapa, YSR District
- Office of the Regional Office (Southern Zone), GOI, MOE&F, Kendriya Sadan, IV floor, Environment & Forest Wings, Koramangala, Bangalore-34.
- Office of the A.P. Pollution Control Board, Board Office, Sanath Nagar, Hyderabad.
- Office of the A.P. Pollution Control Board, Zonal Office, Near Krishna Nagar Rly Gate, Kurnool.
- A.P. Pollution Control Board, Regional Office, N.T. Road, Tirupati.
- Office of the Tahsildar, Pendlimarri Mandal, YSR District.
- Office of the MPDO, Pendlimarri Mandal, YSR District.
- Office of the Pagadalapalli Gram Panchayath, Pendlimarri Mandal, YSR District.

Concerns of the local affected persons, and all the other concerned persons (as defined at Serial No.7 III (ii) a and b of MoE&F Notification No.S.O.1533 dated 14.09.2006) having a plausible stake in the Environmental aspects of the proposed activity are invited within 30 days from the date of publication of this Notification. All the above persons can make written responses to the undersigned Officer of A.P. Pollution Control Board. All these persons can also participate in the Environmental Public Consultation on the date and at the venue mentioned above.

Place : Tirupati
Date : 06.07.2016

Sd/- Environmental Engineer,
A.P. Pollution Control Board, Regional Office, Tirupati.





ఆంధ్రప్రదేశ్ కాలుష్య నియంత్రణ మండలి

ప్రాంతీయ కార్యాలయం, తిరుపతి-517502

పర్యావరణ ప్రజాభివ్రామ సేకరణ ప్రకటన

పర్యావరణ మరియు అటవీ మంత్రిత్వ శాఖ, భారత ప్రభుత్వం యొక్క ప్రకటన నెం.ఎన్.ఓ. నెం.1533 తేది:14, సెప్టెంబర్, 2006 అనుసరిస్తూ ప్రతిపాదన అయిన మెన్సర్స్ ఇ.వి.రంగారెడ్డి వారు ఆంధ్రప్రదేశ్ వైఎస్.ఆర్. జిల్లా, పెండ్లిమిరెడ్డి మండలం, పగడాలపల్లి గ్రామం సర్వేనెం.172 లో సంవత్సరానికి 2,74,000 టన్నుల ఇనుప ఖనిజాన్ని మరియు 62000 టన్నుల లాటరైట్ మైనింగ్ రీజు కొరకు ప్రజాభిప్రాయ సేకరణకై ఈ నోటీసు జారీ చేయబడినది. సదరు ప్రాజెక్టు కార్యకలాపాల వివరాలు ప్రతిపాదకులు దిగువ తెలిపిన విధంగా సమర్పించినారు.

1. కంపెనీ పేరు, చిరునామా & ఫోన్ నెంబర్లు	మెన్సర్స్ ఇ.వి.రంగారెడ్డి, ప్లాటు నెం.84 రాంకీ పెర్ల్, శాతవాహన నగర్, కె.పి.హెచ్.బి కాంపి, హైదరాబాద్-500072, ఫోన్: 9966525277, 9440896772
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4. కార్యకలాపాలకు కేటాయించిన పెట్టుబడి	రూ.3.0 కోట్లు
5. కార్యకలాపాల వివరాలు	ఏడాదికి 274,000 టన్నుల సామర్థ్యం గల ఇనుప ఖనిజం & 62,000 టన్నుల సామర్థ్యం గల లాటరైట్ వెలికి తీయుట గురించి
6. ప్రజాభిప్రాయ సేకరణ తేది, సమయం మరియు ప్రదేశం	తేది: 08.08.2016 సమయం: ఉ.10గం లకు వెదిక: మైనింగ్ ప్రాజెక్టు స్థలం సర్వేనెం.172, పగడాలపల్లి గ్రామం, పెండ్లిమిరెడ్డి మం., వై.ఎస్.ఆర్.జిల్లా
7. ప్రతిపాదనకు సంబంధించిన వివరాలు సదరు ప్రాజెక్ట్ ఎగ్జిక్యూటివ్ సమ్మరీ & REIA రిపోర్టు ప్రజల సౌకర్యార్థం ఈ క్రింది కార్యాలయాల్లో లభ్యపరచడమైనది. ఎ) జిల్లా కలెక్టరు & మేజిస్ట్రేట్ వారి కార్యాలయము, వైఎస్ఆర్ జిల్లా బి) చీఫ్ ఎగ్జిక్యూటివ్ అధికారి వారి కార్యాలయము, జిల్లా పరిషత్, వైఎస్ఆర్ జిల్లా సి) జనరల్ మేనేజర్ వారి కార్యాలయము, జిల్లా పరిషత్ కేంద్రం, వైఎస్ఆర్ జిల్లా డి) రెవిన్యూ డివిజన్ అధికారి వారి కార్యాలయము, కడప, వైఎస్ఆర్ జిల్లా ఇ) ప్రాంతీయ (సదరన్ జోన్) పర్యావరణ, అటవీ మంత్రిత్వ శాఖ, భారత ప్రభుత్వం, కేంద్రీయ సదన్, 4వ అంతస్తు ఎన్నిరాన్ మెంట్ అండ్ ఫార్వేర్డ్ వింగ్స్, కోరమంగళ, బెంగళూరు -34 ఎఫ్) ఆంధ్రప్రదేశ్ కాలుష్య నియంత్రణ మండలి, పోర్ట్ ఆఫీస్, సనత్ నగర్, హైదరాబాద్ - 500018 జి) ఆంధ్రప్రదేశ్ కాలుష్య నియంత్రణ మండలి, జోనల్ కార్యాలయము, కృష్ణా నగర్ రైల్వే గేట్ దగ్గర, కర్నూలు హెచ్) ఆంధ్రప్రదేశ్ కాలుష్య నియంత్రణ మండలి, ప్రాంతీయ కార్యాలయము, ఎన్.టి.రోడ్డు, తిరుపతి ఐ) తహశీల్దార్ వారి కార్యాలయము, పెండ్లిమిరెడ్డి మండలం, వైఎస్ఆర్ జిల్లా జె) మండల పరిషత్ అధికారి వారి కార్యాలయం, పెండ్లిమిరెడ్డి మండలం, వైఎస్ఆర్ జిల్లా కె) పగడాలపల్లి గ్రామ పంచాయతీ కార్యాలయము, పెండ్లిమిరెడ్డి మండలం, వైఎస్ఆర్ జిల్లా	

కేంద్ర పర్యావరణ మరియు అడవుల మంత్రిత్వ శాఖ ప్రకటన రెం.ఎన్.ఓ. నెం.1533 తేది: 14.09.2006లో పేర్కొనబడిన (వరుస క్రమము 7III(ii) (ఎ) మరియు (బి)లలో) రీతిలో ఈ ప్రతిపాదన కర్మాగారము వలన నష్టపోవు ప్రజల నుండి మరియు పర్యావరణ సంబంధిత అంశములు వల్ల ప్రభావితవు ప్రజల నుండి వ్యాఖ్యలు, అభ్యంతరములు ఏదైనా వున్నట్లయితే వాటిని లిఖిత పూర్వకంగా ఈ ప్రకటన వెలువడిన తేది నుండి 30 రోజులలోపు ఆంధ్రప్రదేశ్ కాలుష్య నియంత్రణ మండలి ప్రాంతీయ అధికారి, తిరుపతి వారికి తెలుపవచ్చును. అటువంటివారు, పైన పేర్కొనబడిన తేదీన ప్రజాభిప్రాయ సేకరణ సదస్సులో పాల్గొని తమ అభిప్రాయములు స్వయముగా తెలుపవచ్చును.

సం/- ఎన్నిరాన్ మెంట్ ఇంజనీర్,

ప్రదేశం : తిరుపతి
తేది : 06.07.2016

ఆంధ్రప్రదేశ్ కాలుష్య నియంత్రణ మండలి, ప్రాంతీయ కార్యాలయము, తిరుపతి

REPORT ON LAND SUBSIDENCE

PAGADALAPALLE : IRON MINES: PENDLIMARRY MANDAL

KADAPA-DT.ANDRAPRADESH



By

K.Ashok Reddy, Sr.Geologist (Rtd.),

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ISRO,SHAR,DOS- Govt.of India.,

OCTOBER – 2016.

REPORT ON LAND SUBSIDENCE

PAGADALAPALLE : IRON MINES: PENDLIMARRY MANDAL

KADAPA-DT.ANDRAPRADESH: - 2016

-----by K.Ashok Reddy, Sr.Geologist (Rtd.,)

Ref: Department of Mines and Geology: Public Grievance on the Land Subsidence : Called for Geological Reason - Report Submitted - Regarding.

1. **Preamble :** The Assistant Director Mines & Geology Department Kadapa, has referred the above said incidence and has asked for a Technical Report: . A Geological reconnaissance investigation is carried out in the area and details of the study is herewith presented.

2. **Methodology:**

- a. Study of the location
- b. Geomorphology:
- c. Local Geology:
- d. Structural Geology:
- e. Hydrogeology :
- f. Enquiries with the Local Resident Elder -Farmers:

2.a. **Location :**

- The area is located 3 Km. west of Pendlimarri with Lat.14,26'.56.00"N: Long.78,37',13"E, and has occurred as a village- road subsidence far away from human settlement. It is a small Bridge -Culvert over a stream gully . (Plate .1,2 & Fig.1.)
- The length of the subsidence is 30.0 mtrs (E -W), with a maximum drop of 0.5mtrs at the Culvert (Plate.3) with a axis as near North - South trend .
- The Location of the subsidence is around 800m North East of the Iron Ore Mining area.

2.b. **Geomorphology:**

- The Land form is suddenly tended from Hill to Valley and is not gradational. An indication of structural variance such as a fault (vide.2d). (Fig.4)
- The occurrence of a sudden Stream gully (Fig.1) once a spring (as reported by farmers) is also an evidence of hydrological phenomena of a structural anomaly like a fault.

2.c. **Local Geology:**

- The area is of a junction of three distinct rocks of different era and series.(Table 1, Fig 2 &3) Southern side Papagni Series -Gulcheru formation,

: West and South West – Vempalli Series ; North West Chitravati Series; North and North East and East is of Kurnool group .

- Multiple crossing of boundaries of the basins of Middle and upper proterozoic rock formations in the vicinity of the area is a proof of structural joint/ contact zone or a plane of junction.

Table 1.

Major Group	Sub group	Formation	Symbol in Fig.	Lithology	Occurrence in the area
Upper Proterozoic Era : Kurnool Group	Krishna series (600 m.yrs)	Nandyal	Pt3kns:	Nandyal Shale	Yes
		Koilakuntala	Pt3kk:Kl.	Limestone	Yes
		Paniam	Pt3kp	Quartzite	NO
		Owk	Pt3ko	Shale	NO
		Narji	Pt3k:Knl.	Flaggy Lst	yes
		BG.Palle	Pt3kb:Knl	.Congl.Quartzite	Yes
Middle Proterozoic Era : Kadapa Super Group	Nallamalai Series (1000 m.yrs)	Cumbum	Pt2cc	Dolomite/Lst Shale/Phy. Quartzite	NO
		Bairen konda	Pt2cb	Quartzite	NO
	Chitravati Series (3300 m.yrs)	Tadipatri	Pt2ctq Pt2cts &Bpti Pt2ctf	Quartzite Shale & Sills Dolomite	NO
		Pulivendula	Pt2cp	Quartzite Shale Dolomite Sills	No
	Papaghni (1400 m.yrs)	Vempalle	Pt2cpvq	Quartzite (Qtz.)	yes
			Pt2cpv	Chert BHQtz.: Shale Dolomite, (CBHSD)	yes
		Guvval cheruvu	Pt2cpg	Quartzite	yes

(M.S.Krishnan et.al.- GSI Publications (1990)).

2.d. Structural Geology.:

- Geotechnically the area consists of a well stabilized rock structural planes with closely enclosed basin boundaries.
- It may be seen from the Fig.4 , which is a map prepared by Geological Survey of India (GSI) distinctly points out two intersecting proterozoic Faults
- **Fault:** : "A fracture in a rock along which there has been an observable amount of displacement has taken place to a greater or lesser extent"
- "Faults are ruptures along which the opposite walls have moved past each other." M. P.Billings., 1968

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- **"Movement along the fault plane can be either up or downwards or parallel along the plane of rupture - a joint or a contact .**
- It may be seen from the Plates 4. To 7, that the older pt2cpv is occurring in parallel with younger pt2cpvq (Table.1). **This is a phenomenon of fault zone where the movement has taken place vertically along a plane of contact zone.**

2.e. Hydrogeology :-

- Hydrogeologically the area is having a limited zone of catchment area and the formation can host poor to moderate yielding aquifer in normal conditions.
- The general hydrological gradient is towards North East to wards the valley in the north.
- Attempts of drilling of bore wells to a depth of 200 to 350 for water have been made by the farmers in their agriculture fields on either side of the axis of LS and as well as on the axis too.
- The details narrated by the farmers
 - The borewells drilled on the western side of the axis has encountered potential aquifer at deeper levels 300 to 350mtrs, with poor yields and those drilled on the eastern side are met with that of better yields at ~< 150 mtrs.
 - The Borewells that fell on the axis have not met with any aquifer of potential yields even after going to a depth of > 350 mtrs. Also the rate of drilling is also very fast with a soft nature or less resistant rock formation(Reported as Loose formation.)
- Similarly borewells drilled by some of the mine owners in the southern part right on the hill top, along trend of the LS axis, have met with such a loose rock formation even to a depth of >300 mtrs.
- **The distinctive pattern of drilling , occurrence of variable yields and the encounter of loose formation in the LS – Axis is clearly pointing out to zone of a Lineament.**

2.f. Local Farmers Experience:

An enquiry with the local elder farmer (X- Sarpanch Plate 8.) and others has revealed an interesting fact , that at times in the past it seems they have observed a line of land split / crack to a width of about 3 to 6 inches across their fields with a North – South Trend ,coinciding with the present axis of LS.



- The latest incident has happened it seems 20 years back- as reported .

3 .Summary

- Geomorphology of the area points to a structural variance due to the sudden occurrence of hill to valley .
- Geologically the area is an intersection junction of basin boundaries and the GSI also reported it as zone of lineaments like faults.
- Structurally the parallel occurrence older and younger beds at equal plane of position can also be attributed to a Fault plane.
- Hydrogeologically the varied levels of drilling and the conspicuous encounter of a loose formation in the axis of LS, points to Contact zone . Further the occurrence of variation in depth and in yield of potential aquifer specifies the influence of a lineament across the hydraulic gradient.
- The experiences of the Farmer especially elders on the incidences of land rupture has to be taken as an important information of the local geological events.

4.Conclusion.:-

- The location is surrounded by very old group of hard rocks and structurally are under highly stabilized conditions.
- All the above data points that the area is structurally in a sensitive zone of very low intensity and infrequent incidence of local crustal adjustments are common.
- The location of land Subsidence at the culvert as shown in the plate.3 is insignificant and has occurred along the preexisting plane of lineament.
- The Iron ore mining and other activities would not have any bearing on the Land subsidence.
- Further the current incident of LS , as such cannot be equated as that will lead to a calamity since the area is in a highly stabilized Geo- structural environment.

References:

- 1) Structural Geology-Billings,M.P.,-1974.
- 2).Geology and mineral Resources of A.P.,- Dutt,N.V.B.S-1980.
- 3) Geology of India and Burma-krishnan,M.S.,6th Ed.1982.
- 4) Proc.of the Seminar on Hydrology-Dpt.of.Geol. O.U.1984.,
- 5)Geological Survey of India Map publications – 1990.,

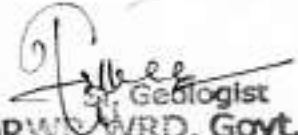

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Fig.1.

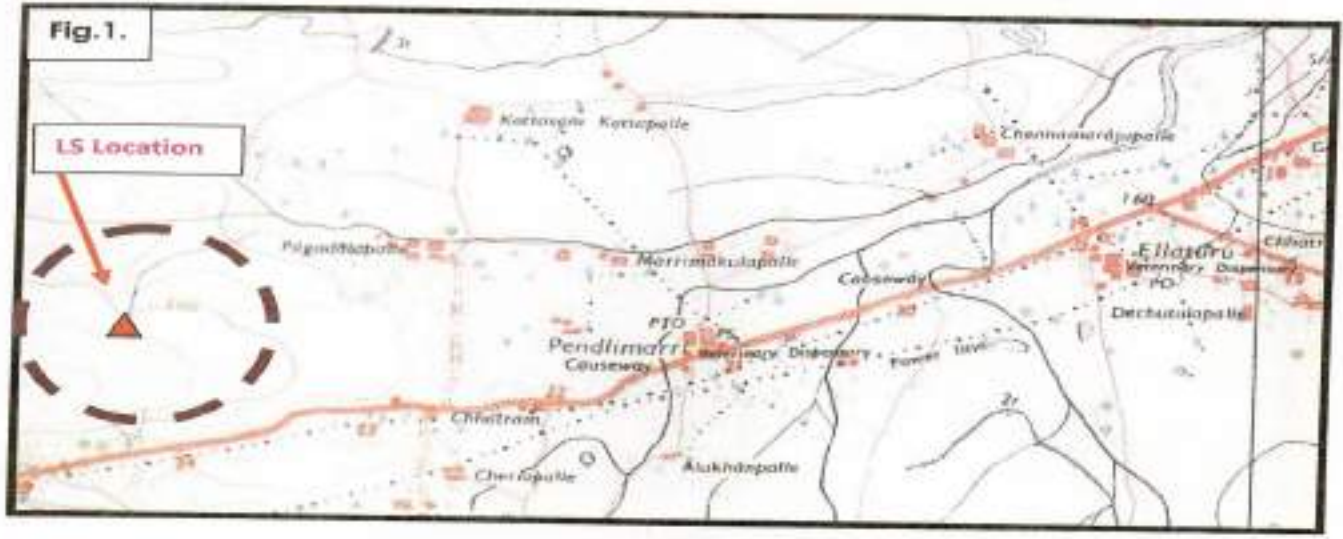
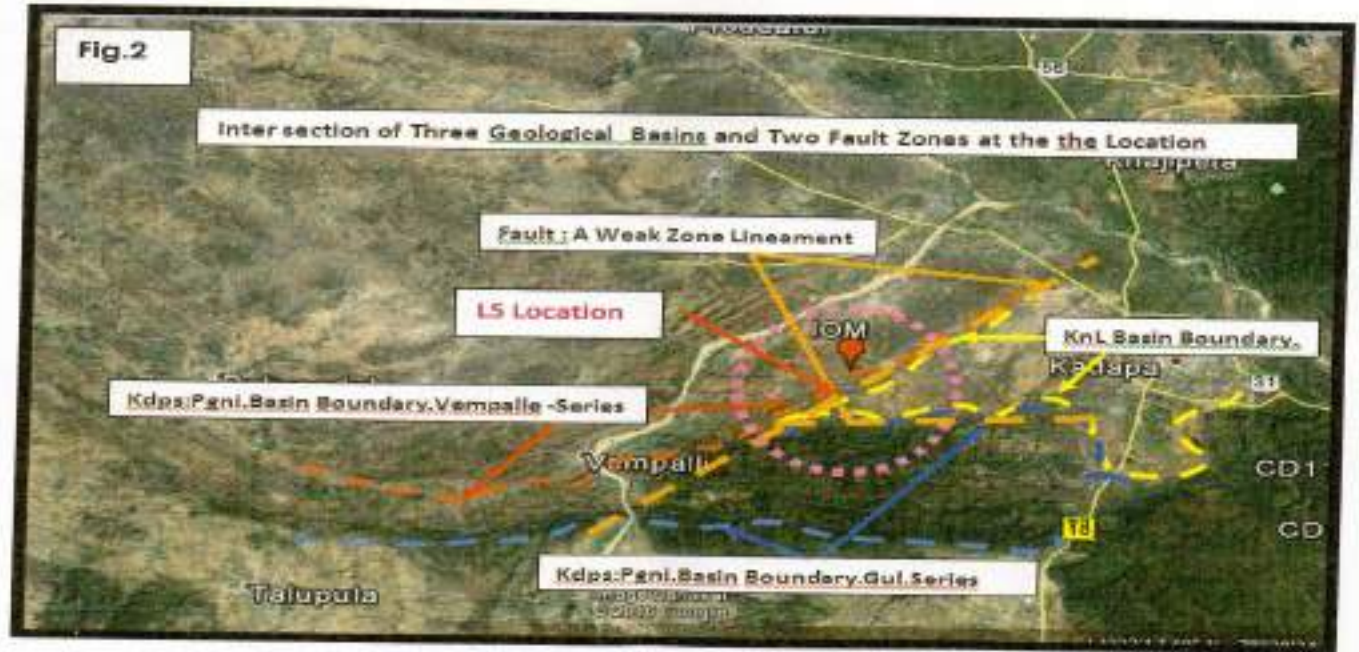
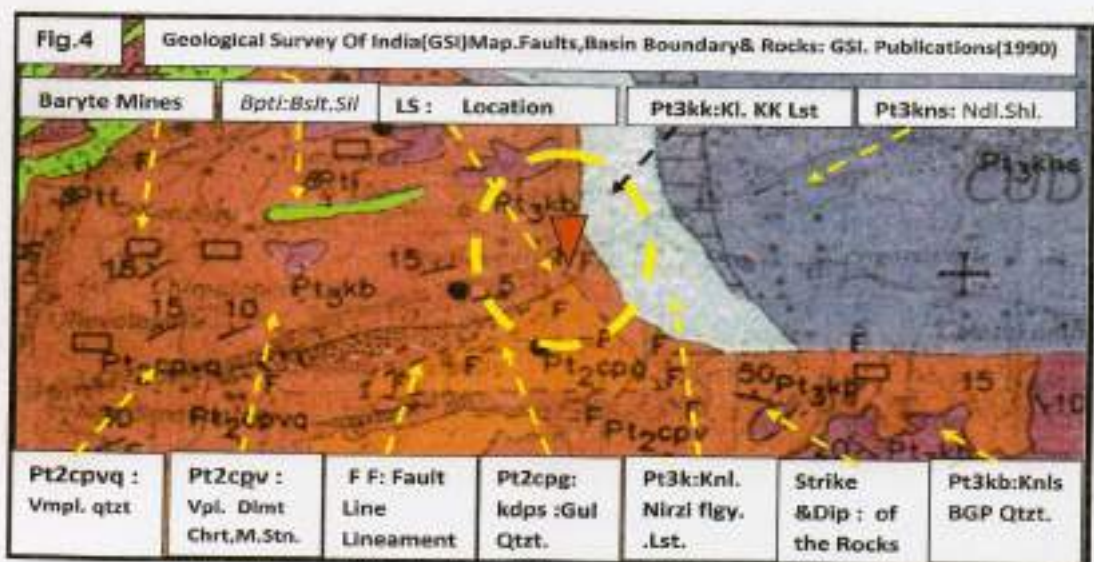
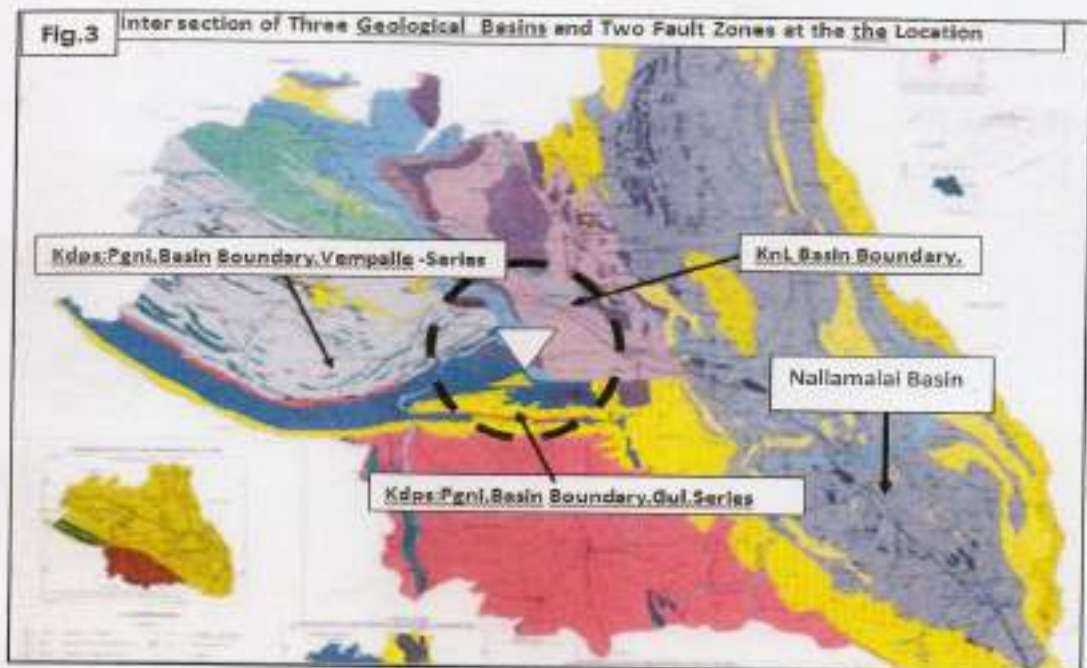
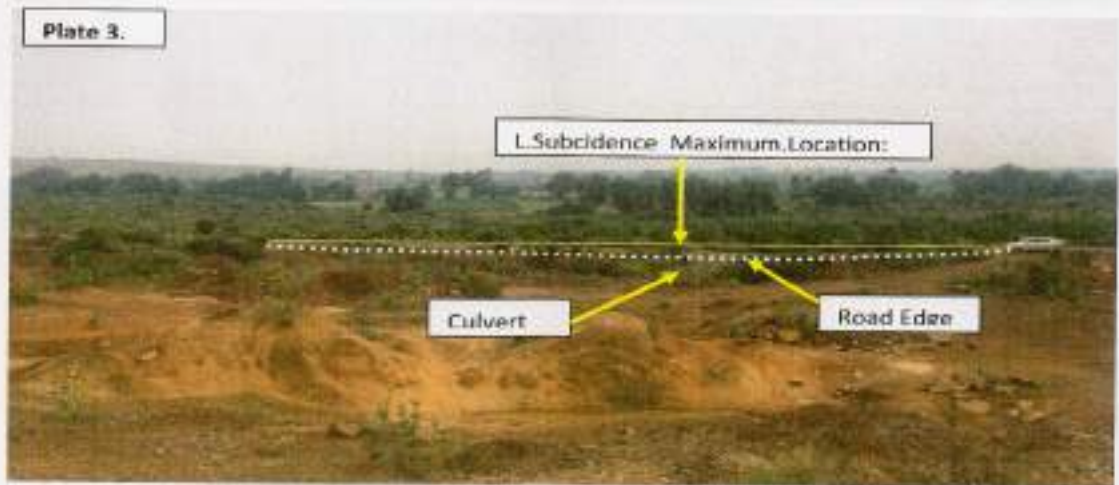


Fig.2







DRW. [Signature]
RIGHT
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Plate.4

South View



Plate.5

Plate.6



Plate.7

North View



[Signature]
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