

**GOVERNMENT OF ANDHRA PRADESH
DEPARTMENT OF MINES AND GEOLOGY**

From

Sri Ch.Suryachandra Rao,M.Sc (Tech)
Dy. Director of Mines and Geology
Srikakulam.



To

The Asst. Director of Mines and Geology,
Srikakulam.

Letter No. 1365/MMP-SKL/2021, Dt:09.06.2021.

Sir,

Sub:	Mining plan - for Mining Plan for River Sand over an extent of 4.50 Hectares in Akulatampara Sand Reach Akulatampara Village, Kotturu Mandal, Srikakulam District - Mining Plan - Approval - Regarding.	
Ref:	1.	Proceedings No.28594/RQP/2001, dated: 25.09.2015 of the Director of Mines and Geology, A.P., Ibrahimpatnam.
	2.	This office Letter No. 1449/MP-SKL/2020, Dt:26.11.2020
	3.	SEIAA Order No. SIA/AP/MIN/185806/2020/928, Dt. 19.12.2020
	2.	Letter No. No. 3684/Sand /2019 dated 09.06.2021 by the Asst. Director of Mines and Geology, Srikakulam

&&&&

In exercise of the powers conferred as per amended Rule 22(4A) of Mineral Concession Rules, 1960 for approval of Mining Plans / Modified Mining Plans /Schemes of Mining in addition to the declaration of (31) Major Minerals declared as Minor Minerals a part from existing approvals the Govt. vide Memo No.7674/Mines.II(I)/2014, dt:23.07.2015 from the Ind & Comun(M.II) Dept. Government of Andhra Pradesh and vide reference 1st cited. I hereby approve the Modified Mining Plan for One (1) year period for an extent of 4.50 Hectares in Akulatampara Sand Reach Akulatampara Village, Kotturu Mandal, Srikakulam District under Rule 7(A) of APMMC Rules 1966 and 23 (B) of MCDR 1988. This approval is subject to the following conditions:

66. The approval of Mining Plan is without prejudice to any other laws applicable to the Quarry area from time to time whether made by the Central Government, State Government or any other authority.
67. The approval of Mining Plan does not any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Development and Regulation) Act, 1957 or the Mineral Concession Rules, 1960 and any other laws including the Forest Conservation Act, 1980 and Granite Conservation Development Rules, 1999.
68. The approval of Mining Plan does not confer the right to continue the quarrying operations. It shall be subject to:
 - aa. Production of Environmental Clearance (EC) from Ministry of Environment & Forests, Consent for Establishment (CFE) and Consent of Operation (CFO) from Andhra Pradesh Pollution Control Board as per Environment Impact Assessment (EIA) Notification issued vide S.O.1533, dated: 14.09.2006 as per the Hon'ble Supreme Court Judgment dated 27.02.2012 in Sri. Deepak Kumar Vs the State of Haryana and Others.
 - bb. Final Settlement of any Demand Notice issued by the competent authority due to detection of illegal quarrying, encroachment etc.

Contd...2

19. The quarry operations shall be strictly in accordance with production indicated in the mining plan/EC/CFE/CFO. In case of any enhancement of the production, revised mining plan/EC/CFE/CFO shall be obtained by the lease holder.

20. The leases holders shall also comply with the following:

- m. Submission of notice to the Director General of Mining Safety, Dhanbad, in the prescribed FORM-I according to Reg.3 of Metalliferous Mines Regulation, 1961.
- n. Submission of notice of appointment of Owner, Agent, Manager, Assistant Manager, Surveyor etc. to the Director General of Mines Safety, Dhanbad in FORM-I according to Reg.08 of Metalliferous Mines Regulation, 1961.
- o. Permissions shall be obtained under Reg.106 (2)(b) of the MMR, 1961 for deployable.
- p. Submission of quarterly and annual return as per Regulation 4 and Regulation 5 of Metalliferous Mines Regulation, 1961 after opening of the mine/Quarry.

Encl: Approved Mining Plan.

Yours faithfully,

Dy. Director of Mines & Geology,
Srikakulam.

Copy submitted to the Director of Mines and Geology, A.P., Ibrahimpatnam, Vijayawada alongwith Approved Mining Plan for information.

Copy to Dr. P.Vijaya Kumar, RQP, RQP/DMG/AP/14/2015, Coastal Mining Consultancy, Head Office: 1st Floor, Opp. Kameswari Gold, Palakonda Road, Srikakulam for information

Copy submitted to the Member Secretary, SEIAA (State Environment Impact Assessment Authority), Andhra Pradesh, Vijayawada along with Approved Mining Plan for information.

Copy submitted to the Director of Mines Safety, Hyderabad Region -2, Room No-701, 7th Floor, C.G.O Towers, Kavadiaguda, Secunderabad-500080 for favour of information.

**MODIFIED MINING PLAN FOR ORDINARY SAND BEARING AREA OVER AN
EXTENT OF 4.50 Ha, Sy.No-1 AKULATAMPARA SAND REACH,
AKULATAMPARA VILLAGE, KOTTURU MANDAL & SRIKAKULAM DISTRICT -
ANDHRA PRADESH
(OPEN CAST SAND MINING)**

*(Prepared as per Guidelines issued in S.O 141(E) Dt: 15/01/2016 of
MoEF& Climate Change, as per APWALTA 2002, APWALT Rules 2004 and as
per APMMC Rules 1966 and Enforcement & Monitoring guidelines for sand
Mining2020))*



APPLICANT & PROPONENT

**MEMBER DLSC,
Asst. Director of Mines & Geology
SRIKAKULAM.
GOVERNMENT OF ANDHRA PRADESH
Email: admgskm@yahoo.co.in**

Prepared by

**Dr.P.Vijaya Kumar M.Sc., Ph.D
Consultant Geologist &RQP
Reg. No. RQP/DMG/AP/14/2015
Coastal Mining Consultancy-SRIKAKULAM**

DECLARATION

Certified that the Mining Plan in respect of specified sand bearing area over an extent of 4.50 Ha., Sy.No-1 AKULATAMPARA sand reach, AKULATAMPARA Village, Kotturu Mandal & Srikakulam District, Andhra Pradesh is prepared in accordance with the Guidelines issued in S.O 141(E) Dt: 15/01/2016 of MoEF& Climate Change, as per APWALTA, 2002, APWALT Rules 2004 and as per APMML Rules 1966 ***and Enforcement & Monitoring guidelines for sand Mining 2020***).

Date: /06/2021

Place: Srikakulam



Authorized Signature

Member DLSC, Asst. Director of Mines & Geology, 
Srikakulam.



DECLARATION/CONSULT LETTER

I Hereby, Under take the all proposals so made in the mining plan prepared by Dr.P.Vijaya Kumar, Costal Mining Consultancy be declared to have been made with my Knowledge & Consent and shall b acceptable from the Model Guidelines issued by Ministry of Environment & Forests, GoI, Accordance with the Guidelines issued in S.O 141(E) Dt: 15/01/2016 of MoEF & Climate Change, as per APWALTA, 2002, APWALT Rules 2004and as per APMMC Rules 1966 **and Enforcement & Monitoring guidelines for sand Mining2020**, have been observed in preparation of the Mining Plan in respect of Specified Sand bearing area for over an extent of 4.50 Ha.,Sy.No-1 AKULATAMPARA sand reach in AKULATAMPARA Village, Kotturu Mandal & Srikakulam District, Andhra Pradesh and where ever specific permissions are required, the department will approach the concerned authorities.

It is also to certify that the information furnished in the mining plan is true and correct to the best of my knowledge.

Date: /06/2021
Place: Srikakulam


Applicant/Proponent
Member DLSC, Asst. Director of Mines & Geology, (Encl)
Srikakulam.

CERTIFICATE

The Provisions of Ministry of Environment, Forests & Climate Changes, GoI, Accordance with the Guidelines issued in S.O 141(E) Dt: 15/01/2016 of MoEF & Climate Change, as per APWALTA, 2002, APWALT Rules 2004 and as per APMMC Rules 1966 **and Enforcement & Monitoring guidelines for sand Mining 2020.** have been observed in preparation of the Mining Plan in respect of Specified Sand bearing area for Ordinary Sand over an extent of 4.50 Ha, Sy.No-1 of AKULATAMPARA sand reach in AKULATAMPARA Village, Kotturu Mandal & Srikakulam District, Andhra Pradesh and where ever specific permissions are required, the department will approach the concerned authorities. It is also to certify that the information furnished in the mining plan is true and correct to the best of my knowledge.



Place: Srikakulam

Date: /06/2021

Dr. P. Vijaya Kumar
M.Sc., Ph.D.

RQP/DMG/18/14/2015
Validity till April 2015

Dr. P. Vijaya Kumar M.Sc., Ph.D.
RQP/DMG/AP/14/2015
Coastal Mining Consultancy,
Srikakulam

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ANNEXURES

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Annexure- III: Copy of RQP certificate.

**MODIFIED MINING PLAN FOR SPECIFIED SAND BEARING AREA OVER
AN EXTENT OF 4.50 Ha. IN VAMSADHARA RIVER IN AKULATAMPARA
VILLAGE, KOTTURU MANDAL, SRIKAKULAM DISTRICT, ANDHRA
PRADESH**

1.0 INTRODUCTION: APPROVED

The Govt. of Andhra Pradesh vide G.O.MS.No. 70 Mines & Minerals – New Sand Mining Policy, 2019 Dated 04-09-2019 issued instructions to all the Member Convener, Dy. Directors of Mines & Geology, Member DLSC is ADMG, Srikakulam in this regard to prepare the Mining Plan for Sand feasible areas and the Member Convener, Dy. Directors of Mines & Geology was directed to prepare EMP for feasible Sand bearing areas to obtain EC from SEIAA . Subsequently Modified orders were issued from time to time. The Guidelines were Issued in S.O 141(E) Dt: 15/01/2016 of MoEF & Climate Change and Enforcement & Monitoring guidelines 2020. Accordingly The Asst. Director of Mines and Geology, Srikakulam Submitted the Mining plan for Sand mining over an extent of 4.50 Ha. IN VAMSADHARA RIVER IN AKULATAMPARA VILLAGE, KOTTURU MANDAL, SRIKAKULAM DISTRICT keeping in view of the instructions issued by the Govt. and as per the provisions of AP WALTA Rules, 2004 , guidelines Issued by MoEF, Govt. of Andhra Pradesh **and Enforcement & Monitoring guidelines for sand Mining 2020**). The Mining plan was approved for by the Dy. Director of Mines and Geology, Srikakulam vide letter No. 1449/MP-SKL/2020, Dt:26.11.2020 for Manual mining. The SEIAA, A.P Accorded the Environmental Clearance for the Same. Since, the proposal of sand mining is only for one year and due to untimely rainfall in summer Season, The Asst. Director of Mines and Geology, Srikakulam proposed for Semi Mechanized Mining for the same sand Reach. Hence the modification of Mining plan is prepared and submitted for approval.

Deputy Director of Mines & Geology
Govt. of Andhra Pradesh
Srikakulam

This Mining Plan is Approved subject to
the Conditions Stipulations indicated in
the Mining Plan Approval letter
No. B6 5/772-UKL/21
Date 09.6.21

1.1 Preparation of Lease sketch

A sketch is prepared showing the specified sand bearing area for open extraction of Ordinary sand in AKULATAMPARA village, in vamsadhara River, Srikakulam District as per the Geo co-ordination specified in the Joint Inspection report and also Google map and same have been enclosed.

The recommended Geo co-ordination mentioned in the Joint Inspection Report are plotted and total area of sand to be extracted came to 4.50 Ha. after leaving the safety zone area to be maintained and the total permitted quantity of sand to be excavated is 45,000 M³

1.2 IMPORTANCE OF SAND: -

Sand has become a very important mineral for our society due to its many uses. It can be used for making concrete and widely used in civil constructions for public and private. On average, people use over 200kg of sand per person per year. This sand is taken from what are essentially nonrenewable resources.

2.0 GENERAL:

Name and Address of the applicant	Member , District Level Sand Committee , Asst. Director of Mines & Geology, Srikakulam A.P.
Status of the applicant	Government of A.P.
Mineral for which applicant intends to Mine	Ordinary Sand
Period of Sand Reach	One Year
Name and Address of the proponent	Member DLSC , Asst Director of Mines & Geology , Srikakulam A.P.
Name and Address of the Prospecting Agency	Coastal Mining Consultancy, Dr.P.Vijaya Kumar M.Sc, Ph.D, RQP/DMG/AP/14/2015 Srikakulam
Extent of the Sand Reach	4.50 Ha

2.1 Location & Accessibility of the area:

- (a) The location of the lease on the Survey of India Toposheet No. 65 N/10 (1:50,000 scale). APSRTC transportation is available from Srikakulam to Akulatampara Village. The proposed quarry lease area is bounded by the coordinates as detailed below: As per the Geo coordinates given in Joint Inspection Report:

B.P.No	Latitude	Longitude
1	18°44'9.32"N	83°58'17.50"E
2	18°44'7.52"N	83°58'22.04"E
3	18°43'57.73"N	83°58'18.17"E
4	18°43'59.90"N	83°58'13.47"E

State & District	Mandal	Village	Reach No. & Village	Area (Ha)	Type of Land	Nature of Extraction
Srikakulam Andhra Pradesh	Kotturu	AKULATA MPARA	AKULATA MPARA Sand Reach	4.50 Ha, Sy. No- 1	Government land	Open Extraction

2.2 INFRASTRUCTURE & COMMUNICATION:

The specified sand bearing area is situated at a distance of 0.76 Km of Akulatampara Village. Srikakulam which is at 48.78 Km. The District headquarters town of Srikakulam is about 48.78 Kms from the specified sand bearing area.



Availability of water	The Ground water is available 5-10m BGL. The agricultural fields around the proposed area are irrigated by nearby river water.
Availability of Electricity	Electricity is available in the village.
Communication network	AKULATAMPARA village is connected to Telephone Network, Post & Telegraph office are available.
Nearest Rail Road	Hadobhanga Half Railway Station (8.81 Kms) is the nearest railway stations from the proposed Sand Reach.
Airport and Sea Port Facility	Visakhapatnam Airport 137.13 Km & Sea Port is about – 137.13 Km from the Sand Reach.
School	Primary school to senior secondary school are available at AKULATAMPARA Village and higher education is at Srikakulam & in Srikakulam
Medical Facility	Medical facilities are available at AKULATAMPARA, AKULATAMPARA & Srikakulam Govt. Hospital & corporate medical centers are available.

PART – A

3.1 General details of the applied area / Mining lease

3.1a Physiography

The area constitutes a Southern part of River vamsadhara, the area is plain gently sloping due South towards Bay of Bengal, local elevation variation between river course and bank is 3 to 5 meters.

3.1b Topography

The specified sand bearing area is a part of vamsadhara River Bed and is almost flat except the banks. The Land profile adjoining the river bank is slightly undulating. The vamsadhara is the East flowing river. The flow rate of the river varies with the quantity of precipitation in the catchment area. The general soil cover is silty clay.

3.1c Regional Geology

The region of the subject area belongs to Recent Alluvium of Quaternary age of fluvial origin. Charnockite and Khondalite form the major litho units belonging to Eastern Ghats Super group of Archean Age.

3.1d LOCAL HYDROGEOLOGICAL CONDITIONS

The specified sand bearing area is drained by vamsadhara River which is 4th order stream. The width of the stream is approximately 500 Mtrs. The proposed area is occupied with medium to fine grained sand. The thickness of the top sand zone in the river course is approximately above 3 Mtrs as mentioned in joint inspection report. Ground Water in investigated area occurs under water table to semi- confined conditions in the river alluvium formation consisting of fine medium grained sands. Groundwater development in the area is by means of filter point wells for irrigation and drinking water purpose for AKULATAMPARA & nearby Villages. The investigated area falls in Kotturu / Srikakulam watershed and it is falling in safe category.

3.2 Geology and Exploration

3.2a GEOLOGICAL PLAN:

The specified sand bearing area composed of sand deposit of thickness is more than 3Mt in the proposed area of the river bed.

3.2b GEOLOGICAL SECTION:

The specified sand bearing area is plain with slopes towards downward stream. Hence, only one section was taken across the sand deposit, No section influence is taken as the deposition of sand is uniform throughout the specified sand bearing area and sand excavation is restricted to 1 m only as per APWALTA Rules 2004.

3.2c DETAILS OF PROSPECTING OPERATIONS:

PROSPECTING OPERATIONS CARRIED OUT: **N/A**

3.2d GEOLOGICAL TRAVERSES

The specified sand bearing area was traversed to demarcate 1mt availability thickness of sand deposit.

3.2e TOPOGRAPHIC SURVEY:

The survey conducted by Revenue Department, Kotturu Ground Water Department, Srikakulam, Irrigation Department & ADM&G, AKULATAMPARA/ Srikakulam of the area as carried out and the geo- coordinates were taken using a Hand held Global Positioning System (GPS) Garmin72. Position format (DMS), Map Datum WGS'84.

3.2f FUTURE EXPLORATION PROPOSED:

No further exploration is proposed as the mineral deposition is the form of unconsolidated sediments and feasible for exploitation is restricted to one meter depth.



3.2g Estimation of reserves in the area:

The total deposition of sand is found to varying from above 3 Mtrs as observed from the specified sand bearing area. As per WALTA act, sand should not be quarried below the water table average thickness of sand above the water table is to be considered as 1.0 M depth. Since, only 1 M depth of sand can be excavated as per the WALTA Rules, 2004 the proved depth of the sand deposit can be considered as 1M.

3.2h Reserve estimation:

The resources of sand are estimated by volumetric method by taking the surface area multiplied by proved depth of the sand deposit i.e., 1 meter

Volume = **Average (Length x Width) x depth**

$$= 45,000 \text{ M}^3$$

Approved Qty in EC in Cum	Dispathed Qty in Cum	Balance Qty / Available Qty for mining / Minalbe Qty
45,000	0	45,000

3.2i Mineable reserves and the life of the mine:

The entire quantity is proposed to be excavated within the period of 1 year. However, only 250 days are taken into consideration depending on the effect of seasonal monsoon rains and flooding in the rains

3.2j QUARRYING:

The proposed sand Quarrying operation is by Semi Mechanized Method. The Sand shall be excavated by Backhoe and into Tippers. The Red line is at a depth of 3.2 Mts from the surface of the Sand reach

3.2k YEAR WISE PRODUCTION:

The number of working days shall be considered as 250 days or 1 year (Excluding Sunday & local holidays). However, the extraction of sand during rainy days and flood period shall be avoided as approach to the reach may not be accessible.

4.0 STOCK YARD: N/A

4.1 LIST OF MACHINERY:

Sl.No.	Type of Machinery	Number
1	Backhoe	1
2	Tippers	5
3	Tractor with Tank	1 (for Sprinkling)
4	JCB	1 for Road Maintainance.

4.2 DRILLING AND BLASTING: N/A

5.0 TRANSPORTATION OF SAND FROM REACH TO THE DESTINATION:

5.1 STORAGE AND HANDLING OF THE EXPLOSIVES: N/A

6.0 WASTE MANAGEMENT PLAN: N/A

7.0 USE OF THE MINERAL:

The Sand mine will be utilized for public purpose only.

8.0 SITE SERVICES:

Temporary shelter, first aid kit and drinking water facility for the labor working in the sand reach.

PART -B

9.0 ENVIRONMENTAL PLAN:

9.1 BASELINE INFORMATION:

9.2 Existing land use pattern: The Proposed Quarry lease area is over the river bed which will be submerged under water during monsoon and floods. The adjacent areas are classified as River by the revenue authorities.

Area to be excavated: 4.50 Ha

9.3 Water Regime: River vamsadhara is a perennial river which flows during the monsoon and post monsoon season during the months July to October with the lean flow during November to June months.

9.4 Flora and Fauna: The subject area is devoid of trees and major vegetative cover as the proposed sand bearing area is over the river bed. Excepting for the Presence of reptiles and other minor wild life rabbits, filed rats, etc., no major wild life exists in this area.

9.5 Quality of Air, Water and Ambient Noise Level: The subject area is away from industries and Human settlements. The impact of quarrying is not likely to have any adverse impact on the existing environment. Quarrying even on a small scale causes some environmental impact. Therefore, efforts are necessary to mitigate the environmental impact created. The management is well aware of this aspect and will take all precautionary measures to mitigate the impact.

9.6 Climatic Conditions: The peak summer will be in the month of May. Highest temperatures of 47°C are recorded in the area during the month of May and the lowest temperature of 20°C is recorded in the month of January.

9.7 Human Settlement: Some of the following villages are located within 5 kms radius of the applied area. The distance and location of these villages with respect to applied area are given in the following table.

S.No	Name of village	Distance	Population
1	Kuddigam	1.48 Km	1028
2	Madanapuram	2.76 Km	568
3	AKULATAMPARA	0.72 Km	991

9.8 Public Building, Places of Worship and Monuments:

There are no Public Buildings, Places of Worship or Historical Monuments within or near to the Sand Lease area.

9.9 Environmental Management Plan:

- i. **Storage and Utilization of Top soil:** No top soil will be generated as the proposed quarrying is over the river bed.
- ii. **Proposal for Reclamation of Land affected by Mining:** N/A
- iii. **Afforestation Programme:** N/A
- iv. **Stabilization and vegetation of dumps:** N/A
- v. **Measures to Control Erosion / Sedimentation of Water Courses:** N/A
- vi. **Treatment and Disposal of Water Form Mine:** Not required as there is no discharge from the Sand reach.
- vii. **Measures for Minimizing Adverse effects on Water Regime:** No specific measures are suggested as there is no effect on water regime due to sand quarrying upto 1 Mt as specified under AP WALTA Rules, 2004 which will be strictly adhered to.
- viii. **Measures for Ground Vibrations due to Blasting:** N/A
- ix. **Measures for Protection of Historical Monuments and Rehabilitation of Human Settlements likely to be disturbed due to Mining Activity:** N/A
- x. **Socio Economic benefits arising out of Mining:** Local labour will be hired

9.10 Provision as per AP WALTA Rules, 2004 for Regulation of Sand quarrying:

The Andhra Pradesh Water, Land and Trees Act, 2002 was transformed into rules referred to as Andhra Pradesh Water, Land & Trees Rules, 2004. The

10.0 ANY OTHER INFORMATION:

Ordinary Sand will be quarried strictly adhering to the provisions of A.P. WALTA Act & Rules 2002 & 2004 respectively, the conditions imposed by SEIAA. The Government of Andhra Pradesh proposes to issue quarry lease to the Dy. Director of Mines and Geology, Srikakulam as per the restrictions, conditions specified by the SEIAA. Hence there shall be no deviation from the Statue.

Date: /06/2021

Place:



Authorized Signature
Member DLSC, Asst. Director of Mines & Geology, (FAC)
Srikakulam

APPROVED




Deputy Director of Mines & Geology
Govt. of Andhra Pradesh
Srikakulam

This Mining Plan is Approved subject to
the Conditions Stipulations Indicated in
the Mining Plan Approval letter
No. 1365/199P-SKL(P)
Date 09.06.21

**JOINT INSPECTION REPORT OF LINE DEPARTMENTS FOR IDENTIFICATION
OF SAND REACHES/SAND BEARING AREAS IN SRIKAKULAM DISTRICT.**

Date of Inspection: 14/2020

1) Location of the proposed sand reach	<u>Akulatampura</u>
2) Name of the River/stream & Order of the River/stream	<u>vamsadara</u>
3) Name of the Village(s)	<u>akulatampura</u>
4) Revenue Survey No of the Specified sand bearing area	<u>Revenue - Angam S.NO - 1</u>
5) Geo-Coordinates of the specified sand bearing Area Demarcated by the Revenue Department	<u>Akulatampura Revenue (vill) Kotturu (Mandal) Srikakulam (Dt) Ext: 4.500 Hecty;</u>
6) Classification of the Land as per the Revenue Department	<u>Vamsadara River - Govt Land;</u>
7) Whether or not any Permanent Structures such as Bridges, permanent water structures and existing sand reaches etc., existed within the 500 mts radius of the Sand bearing area as per the WALTA Rules, 2004.	<u>There are no permanent structures existing within 500 mtr radius of the proposed sand reach;</u>
8) Thickness of the Sand	<u>3 mts</u>
9) Geo-Coordinates of the Feasible Sand Bearing Area Demarcated as per WALTA-Rules-2004	<u>① 18°44'32"N; 83°58'17.50"E ② 18°44'3.52"N; 83°58'22.04"E ③ 18°43'59.90"N; 83°58'13.47"E ④ 18°43'52.72"N; 83°58'18.11"E</u>
10) Recommended Thickness of the Sand to be excavated from Specified Sand Bearing area as per WALTA-Rule-2004	<u>1 mts</u>
11) Whether or not clearance given by the River conservator for excavation of the sand in the specified sand bearing area.	<u>There is no structures within the radius of 500mts from sand reach area.</u>
12) Details of the Ramp Points given by the River Conservator	<u>--</u>
13) Estimation of the Quantity of the Sand to be extracted from the Specified Sand bearing area in Cum.	<u>Ext. 4.50 Hecty Quantity: 45,000 m³;</u>
14) Any other Relevant information	<u>--</u>
15) Recommendation of the Joint Team	<u>Recommended to issue Akulatampura Sand Reach.</u>

P. Balu
Revenue Department

Chandrababu
Ground Water
Department

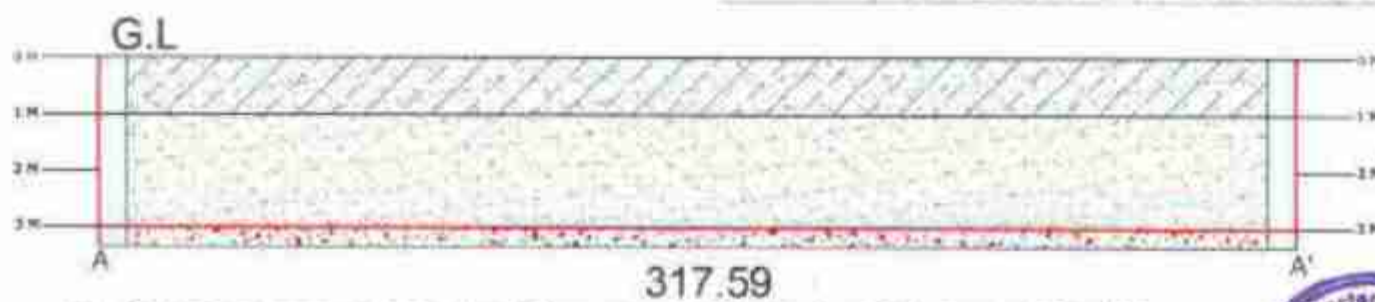
Prasad
Irrigation Department

Prasad
Mines and Geology
Department, Srikakulam-I

DEPUTY DIRECTOR
Ground Water and Water Audit Department
Govt. of AP, Srikakulam



B.P.No	Latitude	Longitude
1	18°44'9.32"N	83°58'17.50"E
2	18°44'7.52"N	83°58'22.04"E
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4	18°43'59.90"N	83°58'13.47"E



** Plates are prepared based on Enforcement & Monitoring Guidelines of Sand Mine by Ministry of Environment, Forest & Climate Change, January 2020



AUTHORIZED SIGNATURE: MEMBER DLSC, ASST. DIRECTOR OF MINES AND GEOL. (S.R.)
SRIKAKULAM

INDEX

	P.L. BOUNDARY
	7.5 mts BUFFER LINE
	SAND
	GRAVEL/SOL.
	ASSUMED BENCH MARK
	SAND
	10 M GRID INTERVAL
	PRODUCTION IN THE YEAR
	CONTOURS

SURFACE CUM GEOLOGICAL PROSPECTING PLAN

Proponent: Chairman DLSC, District Collector, Srikakulam District

MODIFIED MINING PLAN FOR ORDINARY SAND IN AKULATHAMPARA SAND REACH
AKULATHAMPARA VILLAGE, KOTTURU MANDAL
SRIKAKULAM DISTRICT, ANDHRA PRADESH

Specified Sand bearing Extent: 4.50 Ha.

PLATE:	II
SCALE:	1:2000