### HINDOL COLLEHE KHAJURIAKATA, DHENKANAL

## **Department of Physics**

UGC & DRDO Sponsored National seminar on 18th and 19th December 2016

Topic: "Space Science and Technologies in the Service of Mankind"



H. M. Bahu, H.D.D. Comm

SPACE SCIENCE AND TECHNOLOGIES IN THE SERVICE OF MANDACT

## HINDOL COLLEGE, KHAJURIAKATA, DHENKANAL, ODISHA

PHYSICS NATIONAL SEMINAR DT. 18.12.2016 & 19.12.2016

Topic:- "Space Science and Technologies in the Service of Mankind"

æ	LIST OF PAPER P	RESENTERS	
SI Vo.	NAME	TITLE	
1.	Prof. S. K. Pandey (VC Pt. Ravisankar Sukla University, Raipur)	A fresh view of the universe	
2.	Prof. L. P. Singh (Utkal University)	Space, time and universe	
3.	Dr. P. K. Mishra (Reader in Physics, GM University, Sambalpur)	Space the universe and space probes	
4.	Dr. A. K. Sanigrahi (Scientist PXE, DRDO Chandipur)	Other side of electronic revolution: harmful	
5.	Dr. K. K. Chand (Scientist PXE, DRDO Chandipur)	A brief overview of space technology history  Space science technology in the service of	
6.	Prof. Dr. Mrinal Chatterjee (Director IIMC, Dhenkanal)	mankind: where does media fit into this?	
7.	Dr. S. K. Rath (Lect. in Physics, Talcher Auto. College, Talcher	Gravitational waves	
8.	Dr. K. K. Bal (Scientist Indian Metrological Centre, Chandball)	Space science technology mission for india: A great achievement	
9.	Dr. S. I. Hosain (Retd. Joint Director, Higher Education)	A mathematical treatment of the heat of mixing of some binary liquid alloys	
10.	Dr. K. C. Dash (HOD Physics, BRM College, Bhuban)	Space research in the service of mankind	
11.	Dr. K. K. Jena (HOD Physics, Bhadrak Govt. Auto. College, Bhadrak)	Aliens : search of space science	
12.	Dr. Omkar Tripathy (VSSUT, Burla)	Standard part of any finite element of	
13.	Dr. Prafulla Kumar Mishra	Mathematisation of e-commerce	
14.	Dr. K. K. Bal	Importance of space technology for sustainable development: peaceful uses with	
15.	Dr. Santosh Kumar Dash	Space satellites for climatic study and its applications for social benefits	
16.	Dr. A. Pattanaik	10 reasons we should be exploring space	
17	Prof. N. Barik	Simulation of some astrophysical processes in the laboratory using plasma gun	
18	Dr. R. K. Pradhan	The science and philosophy space	
19	Dr. Shree Mishra	Applications of space technology	
20	Dr. S. K. Tripathy	Thermo dynamical aspects of interacting ghost dark energy models	
21	Prof. S. K. Patel	Mathematical modeling for the thermodynami properties of antimony-indium liquid alloy	
22	Prof. S. P. Pati	Application of electronics in space science	

Jayante Naragen Pak 14.3.2017 PRINCIPAL III

No of Participants: 276

## Objective of the seminar :-

The seminar has profoundly influenced the mindset of the students, teachers of our institution. No doubt, it has prompted scientific awareness among the students about Space Science and Technologies in the Service of Mankind. It has inculcated an enthusiasm and interest among the students which would inspire them to choose space science as their future career.

It is hoped that a considerable amount of scientific outlook about astronomy would be generated among the public by the event which may be helpful to eradicate the so called confusion between astrology and astronomy and develop a rational approach.

Scientist have a major role to play in acquainting the teachers, students, public time to time about the recent advances that occur in the domain of science. Prof. S. K. Pandey, V.C. Pt. Ravisankr Shukla University, Raipur, Dr. A. K. Sanigrahi, DRDO Chandipur & Dr. K. K. Chand, DRDO, Chandipur have really done a creditable job by disseminating latest knowledge about space science in the seminar.

The seminar has generated an opportunity where senior scientist and teachers have an interaction with young and the interface of science communication about the space has ignited the mind of everybody.

Jayante Narayan Pad. 14.3.2017

Jayanta Narayan Pati

Name & Signature of Convener/

Organizing Secretary

Akshaya Kumar Dash 14.3.17

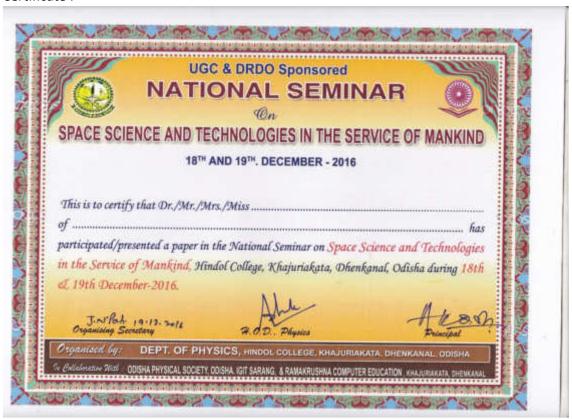
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College

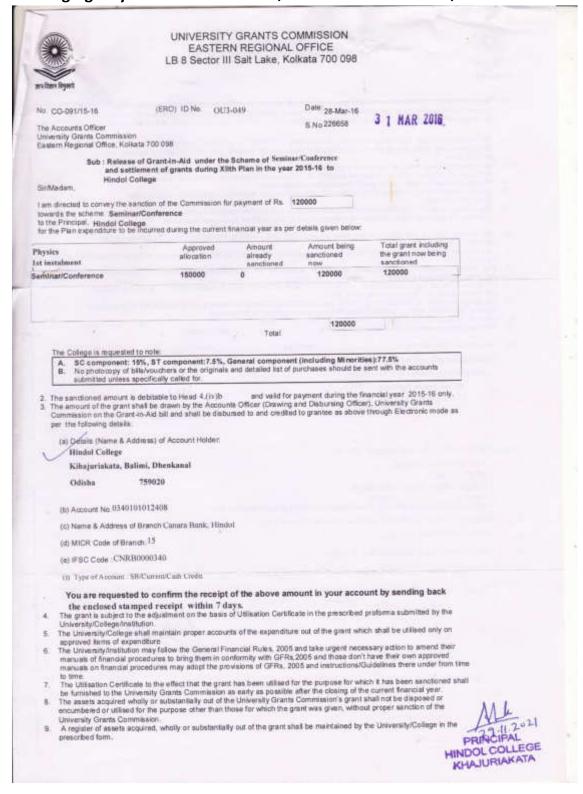
#### National Seminar "SPACE SCIENCE & TECHNOLOGIES IN THE SERVICE OF MANKIND" Organized by: - Dept. of Physics, Hindol College, Khajuriakata, Dhenkanal, Odisha, Pin-759020 Dates: - December 18th - 19th, 2016 PROGRAMME December 18, 2016 (Sunday) Registration 09.00 am-10.00 am 10.00 am- 11.35 am 10 am 10.05 am 10.10 am 09.00 am-10.00 am Inaugural Function Arrival of Guests Lighting of Candle Inaugural Song 10.20 am Introduction of Guests by A.K Sahu (HOD Physics) 00 Welcome Address by A.K Dash, Principal 10.30 am Hindol College Khajuriakata, DKL 10.40 am 10.50 am Felicitation/Citation Address by Dr. K. K. Chand, Scientist, Additional Director (Safety & Reliability Division), PXE, DRDO Chandipur 10.55 am 11.00 am Dr. Md. N. Khan, HOD (Physics), IGIT Sarang Address by Dr. A. K. Sanigrahi, Scientist Additional Director (Administration & HRD), PXE, DRDO, Chandipur 11.05 am 11.10 am Address by Dr. Shree Mishra (OPS President) Address by Honorable Guest - Prof. S. P. Pati Retd. Prof. from Sambalpur University Address by Chief Speaker 11.15 am Prof. L. P. Singh, Retd. Prof. from Utkal University aggaa Address by Chief Guest - Prof. S. K. Pandey 11.25 am (V.C. Pt. Ravisankar Shukla University, Raipur) 11.35 am Release of Souvenir Ø 11.40 am Vote of Thanks by J.N Pati, Organising Secretary. # 11.40 am - 11.50 am Tea Break Chairman of Technical Session by Prof. S.P. Pati Technical Session -I:-11.50 am -12.50 pm Prof. S. P. Pandey 2 12.50 pm - 01.35 pm Prof. L. P. Singh 01.35 pm - 02.35 pm Lunch Break

echnical Session - II		Chairman of Technical Session by	- 2
		Dr. Prasanna Kumar Mish	ra
2.35 pm - 03.05 pm	*	Dr. K. K. Chand	
3.05 pm - 03.35 pm	*	Dr. A. K. Sanigrahi	
3.35 pm -04.05 pm		Prof. Mrinal Chatterjee, IIMC, Dhenkanal	
4.05 pm - 04.35 pm		Dr. Rajat Pradhan	
4,35 pm - 05.00 pm		Dr. K. K. Bal	
5.00 pm	Ť	High Tea	
econd Day (Monday)			
9.00 am - 10.00 am	12	Breakfast	
echnical Session - III		Chairman of Technical Session by	
THE STATE OF THE S		Dr. S. K. Dash	
0.00 am - 10.45 am	1	Dr. Sunil Kumar Tripathy, IGIT Sarang	
0.45 am - 11.30 am	- 5	Dr. Kamalkanta Jena,	
		Asst. Prof. Bhadrak Auto. College	
1.30 am -12.00 Noon		Dr. P. K. Mishra,	
		Retd. Reader from G.M. Univeristy	
to the Lord Casalan IV		Chairman of Technical Session by	
echnical Session-IV		Dr. S. K. Patel	
2 20 11 12 20 014		Dr. Kishore Dash	
12.00 Noon-12.30 PM	-	HOD Physics	
		BRM College, Bhuban, Dhenkanal	
01.00	-	Dr. A. Pattanaik, IGIT Sarang	
12.30 pm -01.00 pm		Dr. K. K. Chand, DRDO, PXE Chadnipur	
L.00 pm -01.30 pm		Lunch Break	
01.30 pm-02.30 pm	1.0		
Technical Session-V		Chairman of Technical Session by	
		Dr. P. K. Mishra	
02.30 pm-04.00pm	10	Paper Presentation	
04.00 pm-05.00pm	10	Valedictory Function	
04.00 pm	1	Introduction of Guests by A. K. Sahu HOD Physics	
04.05 pm		Welcome address by A.K Dash, Principal	
04.05 pm	*	Hindol College,	
		Khajuriakata	
04.15 pm	27	Summing of the seminar by Dr. P.K Mishra	
04.25 pm		Address by Dr. K. K. Chand	
(7) (1) (1) (1)		Address by Dr. A. K. Sanigrahi	NIA
04.30 pm	2	Address by Prof. S. P. Pati (Chief Guest)	1300
04. 35 pm	- 20	Vote of Thanks by J.N Pati	20CIPA
04.45 pm		Organising Secretary	HINDOL COL
		2.0	MANUFOR

#### Certificate:-



## Funding Agency: From UGC Rs.150000/- and from DRDO Rs.50000/-



011-23007437 Telefax: 011-23017582



Directorate of Extramural Research and Intellectual Property Rights (ER&IPR) Ilird Floor, Room Nos 348 & 349 DRDO Bhawan, Rajaji Marg, DHQ PO

New Delhi - 110 011

erip\_conf@hgr.drdo.in

3.) Feb 2017

To

Shri. Jayanta Narayan Pati Organizing Secretary, Hindol College, Khajuriakata, Dhenkanal, Odisha- 759 020

Sub Payment regarding "Space Science & Technologies in the Services of Mankind" on 18-19 Dec 2016 at Hindol College Khajuriakata, Dhenkanal, Odisha

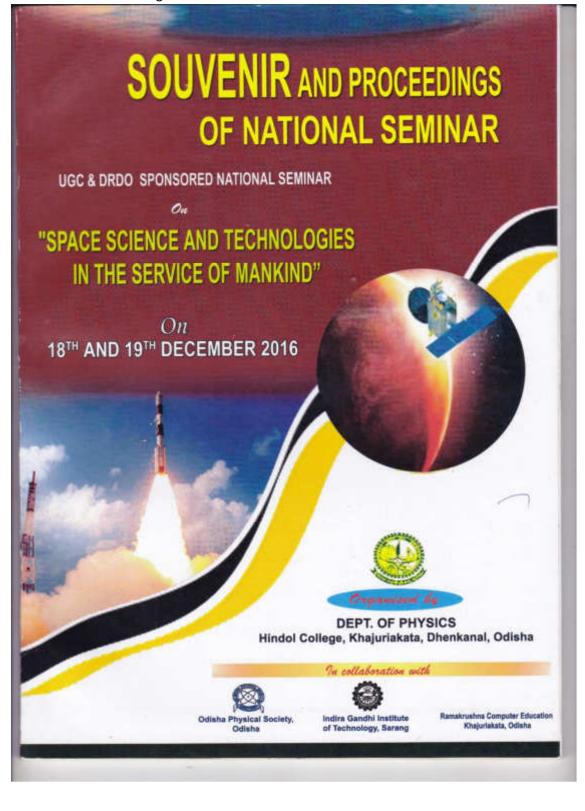
INDOL COLLEGE CHAJURIAKATA

- An amount of Rs 50,000/- (Rupees Fifty Thousand only) has been transferred by PCDA (R&D), New Delhi in favour of "PRINCIPAL, HINDOL COLLEGE, KHAJURIAKATA" through ECS mode on account of the subject conference.
- उपर्युक्त विषय पर 50,000/- रूपये (Rupees Fifty Thousand only) की धनराशि ईसीएस मोड के द्वारा "PRINCIPAL, HINDOL COLLEGE, KHAJURIAKATA" के पक्ष में हस्तांतरित की गई है।
- The under mentioned documents are to be forwarded (within 60 days after 3. completion of events) to this office as per Instructions and conditions of the grants :-
  - An official Receipt of Rs. 50,000/- duly signed immediately for our records. (a)
  - One copy of the proceedings of the event. (b)
  - Utilisation Certificate duly signed. (Format enclosed)
- अनुदान के अनुदेशों तथा शर्तों के अनुसार निम्नलिखित दस्तावेजों को भी इस कार्यालय को अग्रेषित किया जाए:-
  - विधिवत हस्ताक्षरित 50,000/- रूपये की रशीद । 事)
  - इस कार्यक्रम की कार्यवाहियों की एक प्रति ।
  - विधिवत हस्ताक्षरित उपयोगिता प्रमाणपत दो प्रतियों में (फॉर्मेंट संलग्न) ग)

Encls: As above सलंग्नकः यथोपरि

(MM Vashishtha/ एम एम वशिष्ठ) Asstt. Director/ सहायक निदेशक

Souvenir and Proceedings of National Seminar :-



Feedback:-

Services hold on 18/13/16

teendal college has argenized

commission of which is a part of the college of the c

It has been a pleasure for me to be in this college. The areademic atmosphere is vibrant and very discipling My sincere hape is that the aumentus contributed to academic Strouth of the sandents. I wish the faculty and students would continue such good efforts and inspire others

( L. F. Sinsh)

I am really happy to be present on this college has a sounderful at merphers both an demically and obtaining. The enthusiasm and entered of the principal and staff has made the achievement of holding a number of seminary each being an adventive one. I find the entry want of students have princepately.

I also the college to go higher and higher and be practed in all levels.

C SHRIE MISHRAD

I am glow to varticipate in the aminar on is pace Science and Technolossies in the service of manucial.

It grows an inter-discriminant lux onto space scienx.

And as expected mene were expendent and payers from Arfuhent discriptions taking a lase at spend of every since.

For me it evas an eye-opening and stituilthing send ar.

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National Chafferjus.

Head, IIMC, Menkdin.

is great pleasure to alleren tere 1) GC & DRION Sportaneof Waltonal Germina On" Strace Streets and Technologies mite Summe of mordenel" on 1814 & 17th tremout 2011. TO No darks the Samman U Useful for Studieur Vectionis, Physics January & Congratal too Organisco, Pomepal, Studier of Physics department One of there with them a grand receive TOXKOLMONE XCICECURTA DXE Chinolopu Below 10/12/2016

I feel myself printedged to be present at Hindel college during deminar dealt will"Space desires and Technologies in the versies of manhind" and to share my views on "orbita debris", active removal in a great challenge to space Swendish will young and energetic minds. The students of This college.

The whole hearted efforts of organizers especially.

The Dr Jayanta Paki, convenior of this seminar and Dr A is Das.

Principal of this college, to make the seminar a grand

success, are praise worthy. Their able guidance have

helped the students to learn many things during this period.

Jhis is my second visit to this college. But

I am very much subsofied to observe the continued

improvement of college environment and students

bedient on

I express my sinews thanks to one and all related to this seminar.

As Sanning relie

(Dr A & SANNIGRAHI) Scientist F.

Additional Director
Proof & Experimental Establishment,
DRDO, Chandipur, Balasare, Odishi

It is a great pleasure to be in Hindol College,
Majornakata on 18th and 19th Dec 2016 for attending
the National Common on specce saence and technoloorganised by the college. It is a good tood trend
on the past of the college to organise such seninar.
but This will not only create saentific temperament
among the students but also benefit them in
the future career. Along with the organisation of
this type of seninar, the department should
involve transact their teachers to inject physis
for into the minds of the students is that
they will prove their mettle to undertake research
in the field of physics but applications in future.
Good luck for the department and the Students

818hma fre (5.K Patel) 19/X11/2016 (Prasanna K. Misha)

(Janosh K-Dash)

we are von hoppy to vight this college while office the brind The academic activities after where is total competition and it is anow showed teachers and authorities of programmers the College to report the content of the content o

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ସୋମବାର, ୧୯ ଡିସେମ୍ବର

ହିନ୍ଦୋଳ କଲେଜ ପଦାର୍ଥ ବିଜ୍ଞାନ ଜାତୀୟ ସମ୍ପାନ 'ପ୍ରସୁକ୍ତି ବିଦ୍ୟାର ସଫଳ ଉପପୋଗ ଏକ ଆହାନ'



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enequand. ක්ලද කාගය ඉදිරි ඉදින් END HORSE CONDIT TOTAL SHOP DELL BOILD FORD क्षेत्र वेद्री कुकार्ड सक्रावात SHOULD MAKE BELLE विश्वताम हरता छह छहे। कार्याक प्रथम प्रथम स्थान අවස අවස්ථව සම්බ සඳහ SHOP DEND DODG HOPE MOSEDIO DESIGNACIONE 9909 999 9990 20000 00 0000 9000 20000000 0000 SE CONTRACTOR DE LA CON SHOOL LEGICINES GOING त्रकेशक अधिक त्रश्तिक। good eloid eyees ଅତିପ୍ରତାରେ ଏହି ମନ ଦେଉଛନ୍ତି ।

**कंतणात्रचा यक्षारक्षकर** SEED BINE BEST GLAS ସଧା ପ୍ରସାସହିତ ବରିଥିଲେ । ଏହି SHADES AND TRUBBE PORIO DEP D GOS god, enge anneded ପ୍ରସର୍ଗ ସିହି ବୁସ୍ଟୋବସ୍ଥା ଧିଲୟନ୍ତୀ ପରେ ଅସ୍ତିକ୍ରିଡ BOSOUS SKOUS BE Saso area danaer too DESCRIPTION THE CHARLES

deads sease das क्षेत्र विश्व स्थापिक स्थाप ବ୍ୟପ୍ତର ଜିଅକ୍ଷିତର ବୈଲାଚିତ 9. 69.69. 900, 9. 649. අදිගුණු කතුළු කතුම්කතුම, GOLD GIRL GOLD THE රගත් එක්ස සිස්ස් සිස්ස් ପ୍ରକ୍ରତି ବ. ଶ୍ରୀଶ୍ୱ, ସମନ୍ଦ୍ରର ବିଶ୍ୱବିଦ୍ୟାଳୟର ଅବସ୍ଥେତ ପର ପ୍ରକ୍ରେଲ ଜଳୟ ପ୍ରୟତ ପରି पुरुष व्याप्रविधान्यम् । सर्वाप dorn gene day amos व्यक्तान स्वान वार व्यक्त dedes soldes de aged des egites GIGG GIGG GIÉCEGE **२००७ । पूर्व १ । १६७० ।** RESIDENCE OF SECURE OF SECURE ଗମପ ଅନିଶ୍ ବୃତ୍କ ବିକାଶ ବରେଣ ଅଧନ୍ତ ଜଣାଇଥିଲା । STATE PER PROPE DE SEPPRO COSTIGNI 2450dia SANDOUNIDO, POSSIBS CHEROLEGE LEGISTRO DEC SIGNETIC RECEIVE HERVERORIES DER DRP ORG SALE SPINES

# ମହାକାଶବିଜ୍ଞାନ ଓ ପ୍ରଯୁକ୍ତି ବିଦ୍ୟା କର୍ମଶାଳା

\$60(P.Q): REGERÇO PORTÔGIN, DIGIPOPIEIS ଆହି ପରାର୍ଥ ଦିଲାନ କିହାସ ଓଲରୁ ମାନକ ଅବସର ସେବାଳ ମହାଳଶଦିଷାଳ ଓ ପୁଦ୍ୱଳିତିତ। ଏପ୍ଲସିସର, ହିଲ୍ଲମିତ ବର୍ଦ୍ଦିପୁରର ଦୈଲ୍ଲମିତ ସହଳୟ ଦୁଇଟିଡ଼ିଆ ଜଳୟ ସେଥିତଳ କେ.କେ. ବାର,ଅନ୍ୟାନମ ଦୈଷାଣିକ ବଦଗାଳିକ ହୋଇଥାର୍ଡ୍ଡି ।ମୁଖ୍ୟ ଅତିଧ୍ ଏହାଟେ,ଖମିମ୍ମଣ, ଅନ୍ତମିଖନ୍ତି ସମୟର ରାତେ ଗୋଗ ଦେଇ ଗାଳପୁର ଦିଶ୍ ସତାର୍ଥ ଦିଲାକ ଦିଲାକାଣ ମୁଖ୍ୟ ර්ථානය කත්ව කර්වක වර්ග කර් ඇත. නැ.ක්.ක්ෂ ස්විතක දෙනක්වා ଶଳତ ବିଧି ଧାସ୍ତାରିତେ ବିଜ ଉପସ୍ଥରତ ଦସିଥିଲେ ମଧାଦିବ୍ୟାଳସାନ ଅଧୟ କଲ୍ଲଲ DEG SUID GIGS SUBSICE चंदराविक कार्याक्षणका करूक वेंक् वेंका कारण कुटलाविका कार्या कर ଦିବାବରର ପଦାର୍ଥ ଦିବାଦ ଦିବାବାର acces did deade econor data, egg dea desp des attaches वै गुप्त क्या चारक द्वाद दक्ष गामक अवस्था वैवान व्यवस्था विद्याव वर्षा ଦେବାରେ ମହାଳାଶ ଦିଲାନ ଓ ପ୍ରତ୍ୱଳି ବିଦ୍ୟ । ପ୍ରତର୍ଶ୍ୱନ କଠାଯାଇଥିଲା । ଅତ୍ୟୁକ୍ତର ଦିଲାଲଣ ପିଷଦ ଭାବେ ହାଖ୍ୟା ଜଣିଥିଲେ । ସଂଯେତନା କରିଥିଲେ ।

DEDIG SOUTHER CHES GROOD SOCIETY सक्रमण्य परम्बद्धाः वेष् विपालकाः SIB. ଦିନାରୀଲ ଅଧାରକ,ଅଧାରିକା ଏକ हात्तात्तात्त्व स्टालाव क्षण व प्रति वात्रात्रीहरू कार्यका वृत्तिवार्थक ଖେତ୍ତର ଦୈଷାରିକମାନଙ ନିଷାପର ମଖା ଅଣୟ କ୍ରମର ଏହୁ ପ୍ରତମିକ କ୍ରମନ exceed those acres an years done again the govern මස්තෙ ගනසාතරාවිතුවා අපසරත නාගත තුනක දෙන රව තේලේ -

ହିନ୍ଦୋଳ କଲେକ୍ରେ କାତୀୟ ସମ୍ପାନ

de l'espois de des desse puls espesiones कर करू राजवाक क्षेत्रक उत्तेत्र एवन् वरूप प्रथम विका व्यस्त करवात त्रुंबनूष पण क्याविका स्थाप प्रमाण ACTORNO COURT DOO DURING TO BUCKSO

REPORT OF GOOD CHARGE SEC. කරෙය දිය පරිභාවය ඇති බඳුවන්ගෙන ගත කරෙය දුක්කයක් මේ ඉදින් නැත්තුමක් ගත 997 950 प्रकार क्रिक्टिवान् शहरत प्रकार was then a god for THE ROOD OF HER DIA GENE

J.N. Pah 19.12. 2016

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## Photo :-

