



ANNAMACHARYA COLLEGE OF PHARMACY

New Boyanapalli, Rajampet - 516126, Y.S.R. Kadapa District. A.P., India

Teachers provided with Financial Support to attend Conferences / Workshops and towards Membership Fee of professional bodies during the year 2017-18

S. No.	Name of teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
1.	Dr. P. Dwarakanadha Reddy	30 th Pearl Anniversary: Pharma collaboration for New Frontiers Hong Kong Pharmacy Conference 2018 (10-11 March 2018)	---	Rs.10000/-




PRINCIPAL

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ANNAMACHARYA COLLEGE OF PHARMACY
NEW BOYANAPALLI-516 126
RAJAMPET, Kadapa Dist. A. P.

Annamacharya College of Pharmacy-2017-18

New Boyanapalli
Rajampet
Kadapa (Dist)
E-Mail : ancpaet@gmail.com

Payment Voucher

Dated : 9-Apr-2018

Particulars	Amount
Account : Seminar & Conference	10,000.00
Through : Andhra Bank A/c:176310100000186	
On Account of : ch no 000300 paid to Dr P Dwarakanadha Reddy to attend international conference at Hong kong as per institute norms	
Amount (in words) : Indian Rupees Ten Thousand Only	
	₹ 10,000.00

Receiver's Signature:


Authorised Signatory


PRINCIPAL
ANNAMACHARYA COLLEGE OF PHARMACY
NEW BOYANAPALLI-516 126
RAJAMPET, Kadapa Dist. A. P.



P. Dwarakanadha Reddy
AAB

REQUEST LETTER

Date: 05-03-2018

From

Dr. P. Dwarakanadha reddy

Assistant Professor,

Department of Pharmaceutics,

Annamacharya College of Pharmacy,

Rajampet-516126,

Kadapa, Andhra Pradesh

To

The Principal

Annamacharya College of Pharmacy,

Rajampet-516126

Kadapa, Andhra Pradesh

Sub: Request for Travel grant to attend the international conference-Reg

Ref: Acceptance of research paper for poster presentation at Hong Kong Pharmacy Conference – 2018 at Hong Kong Convention and Exhibition Center at Wanchai.

Respected sir,

With reference to the cited subject, my research paper was accepted for poster presentation entitled "**Design, Development and Characterization of Pioglitazone Transdermal drug delivery system**" for Hong Kong Pharmacy Conference-2018, which is held on March 10th and 11th 2018 at Hong Kong Convention and Exhibition Centre at Wanchai . So here by iam requested you to provide full or partial international travel grant to attend the conference to meet out my expenditure. If you sanction travel grant, it may help me to manage my financial crises. So please do the needful.

Thanking you

P. Dwarakanadha Reddy
Yours Sincerely,

Dr. P. Dwarakanadha Reddy


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NEW BOYANAPALLI-516 126
RAJAMPET, Kadapa Dist. A. P.



學術年會三十載

藥劑協作拓新域

30th Pearl Anniversary:

Pharma - Collaboration for New Frontiers

Certificate of Attendance

This is to certify that
茲證明

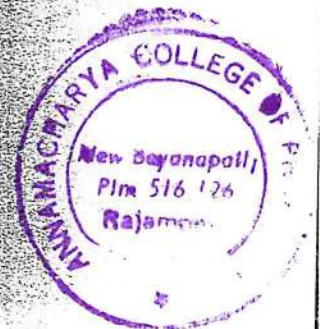
Dwarakanadha Reddy Peram

has attended the Hong Kong Pharmacy Conference 2018
on 10 - 11 March 2018

於二零一八年三月十至十一日出席
2018香港藥劑學術年會

Dr. Simon So
Principal
ANNAMACHARYA COLLEGE OF PHARMACY
NEW BOYANAPALLY
RAJAMPET, Kadapa Dist. A. P.

蘇煒彥博士
主席
2018年香港藥劑學術年會



HONG KONG
PHARMACY
CONFERENCE
香港藥劑學術年會



CUHK



DH



HA



HKU



PSHK



PPA



SHPHK



就業及旅遊簽證組 (2 4 樓)
EMPLOYMENT AND VISIT VISAS SECTION (24/F)

電話 Tel 28293240

圖文傳真 Fax 21579085

覆函請註明本處檔號 In reply please quote this ref V0EV-0070368-18(1)

PERAM, DWARAKANADHA REDDY

Via email: dwarak2001@yahoo.co.in

香港特別行政區政府
入境事務處

Immigration Department
The Government of the Hong Kong
Special Administrative Region



V0EV-0070368-18(1)

27-02-2018

(Counter 15 for Visa Collection)

Re: PERAM, DWARAKANADHA V0EV-0070368-18(1)
REDDY

Dear Sir / Madam,

I am pleased to inform you that the application of above-named person(s) for entry visa for Hong Kong has been approved Single entry with a stay of 7Day(s) with visa validity until 11-03-2018 .

Since the cashing in of the bank cheque and the mailing of visa label to you will take around 3 weeks to process, please consider to appoint a local representative instead(hearing your authorization letter) to pay the visa fee and collect the visa label (and the unused cheque No. 616669), within one month from the issuing date of this letter, at our office in order to catch up with your schedule.

This office opens from 08:45 a.m. – 11:30 a.m. or 02:00 p.m. – 05:00 p.m. for collection of the visa/entry permit. This office will close on Saturdays, Sundays and public holidays.

The authorized person coming to collect the visa should bring an authorization letter, this notification, visa / entry permit fee HK\$190(per passport) and produce the person's Hong Kong Identity Card.

Yours faithfully,

(LO, KA WING)
for Director of Immigration

此郵件由系統自動編寫，無須簽署。
This is a system generated letter and no signature is required.
ANNAMACHARYA COLLEGE OF PHARMACY
NEW BOYANAPALLI-516 126
RAJAMPET, Kadapa Dist. A. P.



香港灣仔告士打道七號入境事務大樓 Immigration Tower, 7 Gloucester Road, Wan Chai, Hong Kong
圖文傳真 Fax: (852) 2824 1133 • 電郵地址 E-mail Address: enquiry@immd.gov.hk
網址 Website: http://www.immd.gov.hk/

DESIGN, DEVELOPMENT AND CHARACTERIZATION OF PIOGLITAZONE TRANSDERMAL DRUG DELIVERY SYSTEM

Dwarakanadha Reddy P¹, Swamalatha D, Gopinath C
 Annamacharya College of Pharmacy, Rajampet - 516126, Andhra Pradesh, INDIA.



INTRODUCTION

Transdermal drug delivery is an alternative route for systemic drug delivery which minimizes the absorption and improved the bioavailability. Orally Pioglitazone has a short elimination half-life (3-7 hrs.), improved oral bioavailability (75%) and which are stable in GI tract it do not undergoes extensive first pass metabolism (95%) and frequent high doses (15-30 mg) are required to maintain the therapeutic level as a result, dose development toxic effect.

AIM & OBJECTIVE OF THE STUDY

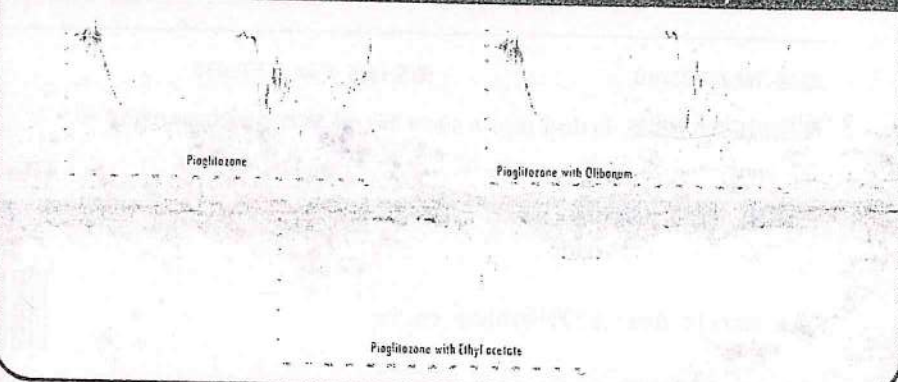
The purpose of this research work was to design and development characterization of Pioglitazone transdermal drug delivery system by using various polymers such as Olibanum with different concentration by solvent evaporation technique.

EXPERIMENTAL METHOD

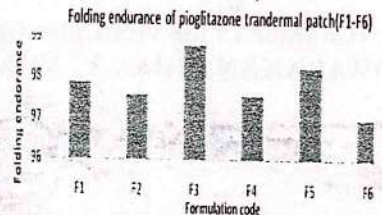
Preparation of transdermal patch

Transdermal patches of pioglitazone prepared by solvent evaporation technique
 Ethanol solution of polymer and drug along with glycerin (plasticizer) was prepared.
 The homogenous mixture was poured into plastic mould.
 The solvent was allowed to evaporate at controlled rate by placing an inverted funnel over the plastic mould.
 The drying was carried out at room temperature for duration of 24 hours.
 After 24 hours the dry films was removed from plastic mould and stored in desiccators until used.

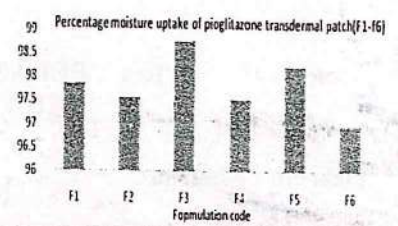
FTIR Studies of Pioglitazone, Pioglitazone with Olibanum, Pioglitazone with Ethyl cellulose



Folding endurance of pioglitazone transdermal patch



Percentage moisture uptake



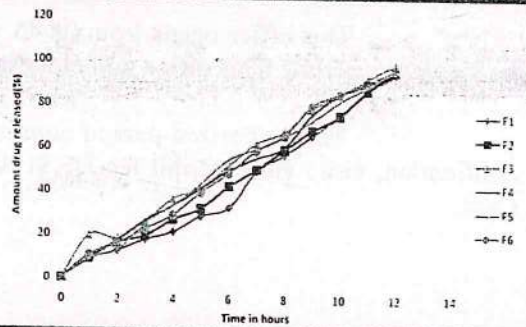
Partition coefficient of the Drug & Drug in Skin

Partition coefficient of the Drug	Solvent system	Log D Values
Pioglitazone hydrochloride	Phosphate buffer : n-octanol	2.24 ± 0.008
Pioglitazone hydrochloride	Phosphate buffer : skin	2.6 ± 0.009

Formulae for pioglitazone transdermal patches

Ingredients	F1	F2	F3	F4	F5	F6
Pioglitazone, mg	30	30	30	30	30	30
Olibanum, mg	---	25	50	75	100	125
Ethyl cellulose, mg	50	50	50	50	50	50
Tween 20, ml	30%v/v	30%v/v	30%v/v	30%v/v	30%v/v	30%v/v
Glycerin, ml	1	1	1	1	1	1
Oleic acid, ml	5%	5%	5%	5%	5%	5%
Ethanol, ml	20	20	20	20	20	20

In-vitro Drug release studies of pioglitazone transdermal patch



Evaluation Parameters

- Physical appearance
- Weight uniformity
- Thickness of the patch
- Percentage Moisture uptake
- Water vapour permeability
- Percentage Elongation break test
- Drug content
- Folding endurance test
- Stability Studies

Physico chemical evaluation of pioglitazone transdermal patches

Formulation Code	Weight Uniformity	Thickness (mm)	Water vapor permeability	Percentage elongation break test	Drug content (%)	Folding endurance
F1	300	0.157	0.23	70.1%	97.87 ± 0.22	336 ± 0.358
F2	301	0.178	0.39	72.3%	97.58 ± 0.24	339 ± 4.67
F3	301	0.238	0.61	78.5%	98.77 ± 0.26	349 ± 5.35
F4	302	0.195	0.55	69.2%	97.55 ± 0.28	529 ± 4.87
F5	303	0.150	0.57	67.2%	98.25 ± 0.55	542 ± 5.22
F6	302	0.220	0.54	65.3%	96.99 ± 0.45	531 ± 4.34

CONCLUSION

- It has been observed that diffusion is dominant mechanism for drug release following Non-Fickian type of diffusion.
- Among all the prepared patches, F3 would be better formulation based on the in vitro skin permeation studies as it sustained the release of drug for longer duration without significantly releasing the drug in a burst manner in the initial hours.
- So it was shown high therapeutic efficiency and reduces toxic effects. Stability studies indicated that the formulated patches were having adequate shelf life.

BIBLIOGRAPHY

- A. Wahid, B. K. Sridhar and S. Shivakumar, Preparation and Evaluation of Transdermal Drug Delivery System of Etoricoxib Using Modified Chitosan, *Indian J Pharm Sci.* 2008 Jul-Aug; 70(4): 455-460.
- Biswajit M, Kanupriya, SM, Surajit D, Balaran P. Sorbitan Monolaurate 20 as a Potential Skin Permeation Enhancer in Transdermal Patches. *J App Res.* 2005; 5:96-101.
- Shankar V, Benita Johnson D, Sivanand V, Ravichandran V, Raghavaram S, Velrajan G, et al. Design and Evaluation of Nifedipine Transdermal Patches. *Indian J Pharm Sci.* 2003;63:510-5.

ACKNOWLEDGMENT

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Hong Kong Pharmacy Conference 2018

March 10 - 11, 2018

30th Pearl Anniversary:
Pharma-Collaboration for New Frontiers



*The Pharmaceutical Society of Hong Kong
The Practising Pharmacists Association of Hong Kong
The Society of Hospital Pharmacists of Hong Kong*

b24

Design, Development and Characterization of Pioglitazone Transdermal Drug Delivery System

DDY, Dwarakanadha Peram; SWARNALATHA, D; GOPINATH, C
namacharya College of Pharmacy, India

The main aim of this research work was to design and development characterization of Pioglitazone transdermal drug delivery system by using various polymers such as Olibanum with different concentration by solvent evaporation technique. The prepared formulations were evaluated for different physicochemical characteristics like thickness, folding endurance, drug content, percentage moisture absorption, percentage moisture loss, percentage elongation break test and weight uniformity. The diffusion studies were performed by using modified Franz diffusion cells. The result of dissolution studies shows that formulation, F3 (Olibanum with 50 mg) showed maximum release of 99.95 % in 12hrs, whereas F1 (Olibanum and EC backing membrane) showed minimum release of 93.65% in 12 hr. Based on the drug release and physicochemical values obtained the formulation F3 is considered as an optimized formulation which shows higher percentage of drug release of 99.95 % in 12 hr. The developed transdermal patches increase the therapeutic efficacy and reduced toxic effect of pioglitazone.

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Development and Evaluation Chlorpheniramine Maleate Containing Nanoparticles Loaded Thermo Sensitive *In Situ Gel* for Treatment of Allergic Rhinitis

L. Vipin; KUMAR, Manish; BHATT, Shailendra; PANDURANGAN, A
M. M. College of Pharmacy, M. M. University, India


Objectives: The objective of the present study was to fabricate a thermo sensitive gel containing Chlorpheniramine maleate (CPM) loaded nanoparticles following intranasal administration for effective treatment of allergic rhinitis.

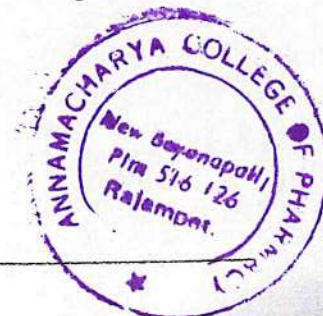
Methods: Chitosan based nanoparticles were prepared by precipitation method followed by the addition of developed NPs within the Pluronic 407 and carbopol 934P based mucoadhesive thermo-reversible gel. Developed formulations were evaluated for Particle size, ZI, % entrapment efficiency and % cumulative drug permeation.

Result and discussion: NP3 formulation was found to be optimized on the basis of minimum particle size (143.9 nm), maximum entrapment efficiency (80.10±0.414 %) and highest drug permeation (90.92±0.531 %). The optimized formulation NP3 was then formulated to thermo reversible *in situ gel*. This intensifies the contact between nasal mucosa and the drug, increases and facilitates the drug absorption which results in increased bioavailability. G4 formulation was selected as the optimize on the basis of gelation ability and mucoadhesive strength. Histology was carried out to examine the damage caused by the optimized G4 formulation. Results revealed no usual signs of tissue damage thus indicated safe nasal delivery of nanoparticulate *in situ gel* formulation G4.

Conclusion: Intranasal CPM NP-loaded *in situ gel* was found to be a promising formulation for the treatment of allergic rhinitis.

Keywords: Chitosan, Nanoparticles, *in situ gel*, Chlorpheniramine maleate, Poloxamer 407


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TAMMAMPET, Kadapa Dist. A. P.





14 December 2017

Dr. P. Dwarakanadha Reddy
Professor
Department of Pharmaceutics
Annamacharya College of Pharmacy
Rajampet-516126
Phone: +91-9959937906
Email: dwarakanadha.reddy25@gmail.com

Hong Kong Pharmacy Conference 2018 - Confirmation for Poster Presentation

Dear Dr. Reddy,

Thank you very much for submitting your paper to the Hong Kong Pharmacy Conference 2018 to be held on 10-11 March 2018. We are glad to inform you that your paper "DESIGN, DEVELOPMENT AND CHARACTERIZATION OF PGIOLITAZON TRANSDERMAL DRUG DELIVERY SYSTEM" has been selected by the Abstract Committee for poster presentation. The poster will be displayed on both days of the Conference. Further details on the preparation of your poster will be advised at a later stage once we have received your confirmation. To confirm your acceptance, please be reminded to register for the Conference and provide us your registration confirmation number via email, otherwise, your presentation will be treated as *withdrawal*. Registration could be done online at <https://www.pharmacyconference.org/en/registration-information.php>.

If you require any further assistance, please feel free to contact Miss Gigi Wong at tel: (852) 3153 4374 or via email: abstract@pharmacyconference.org.

We look forward to receiving your confirmation soon.

Yours sincerely,
Abstract Committee
Hong Kong Pharmacy Conference 2018

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NEW BOYANAPALLI-516 126
RAJAMPET, Kadapa Dist. A. P.





Dwarakanadha Reddy <dwarakanadha.reddy25@gmail.com>

Payment Received for HKPC 2018 - Online Registration (HKPCREG180328)

Hong Kong Pharmacy Conference 2018 Meeting Secretariat
<registration@pharmacyconference.org>
To: dwarakanadha.reddy25@gmail.com

Fri, Dec 29, 2017 at 10:13 AM



Registration and Financial Statement

PERSONAL DETAILS

Name: Dr. Dwarakanadha Reddy Peram
 Job title: Professor Department: Pharmaceutics
 Company / Hospital Name: Annamacharya College of Pharmacy
 Address: New Boyanapalli, Rajampet
 Country: India
 Working Sector: Education
 Telephone: Country code - Area - Number Fax: Country code - Area - Number
 91 - 995 - 9937906
 Email address: dwarakanadha.reddy25@gmail.com

CONFERENCE REGISTRATION

Registration No.: HKPCREG180328

Conference Registration: Full Registration - Non-member

Total:

Remarks:

Amount (HKD)

1,400.00

1,400.00

- Registration counters will open as follows:
 Date and Time : 10 March 2018(Sat) - 1:45pm - 6:30pm
 11 March 2018 (Sun) - 8:00am - 4:30pm
 Venue : Meeting Rooms N200 Series, Level 2, Phase 2 (New Wing), Hong Kong Convention and Exhibition Centre, 1 Expo Drive, Wanchai, Hong Kong.
- Please present this statement for registration verification and delegate kit pick up on-site.
- Please inform the Secretariat immediately if the information on this statement is incorrect.
- Please visit www.pharmacyconference.org for updated programme and academic accreditations.
- Any written cancellation notice should be sent to "Hong Kong Pharmacy Conference, Secretariat: MIMS (Hong Kong) Limited, 27/F., OTB Building, 160 Gloucester Road, Wanchai, Hong Kong". Cancellations received in writing before 17 December 2016 will qualify for a full refund. Cancellations thereafter are non-refundable. The Conference Organizing Committee reserves the right to process refunds after the conference concludes. Registration is not transferable.
- The Organizer is not responsible for personal accidents or damage to the private property of registered participants. It is suggested that participants should make their own arrangements with respect to medical, accident and other necessary insurance. The Organizer is also not liable for any refund of paid fees if the Conference is forced to cancel at the end due to natural disasters.

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ANNAMACHARYA COLLEGE OF PHARMACY
NEW BOYANAPALLI-516 126
RAJAMPET, Kadapa Dist. A. P.



09 MAR 2018 ▶ 13 MAR 2018 TRIP TO HONG KONG, HONG KONG S A R

PREPARED FOR
PERAM/DWARAKANADHA REDDY MR



RAVI PRAKASH TRAVELS
6/362 R S ROAD, RAJAMPET-
516115, KADAPA DIST, AP
9441886598
TRAVEL CONSULTANT RP

RESERVATION CODE VQQPQA
AIRLINE RESERVATION CODE JWYDD (AI)

DEPARTURE: FRIDAY 09 MAR Please verify flight times prior to departure

AIR INDIA LTD. AI 0541 Duration: 1hr(s) 5min(s) Class: Economy / Q Status: Confirmed	TIR TIRUPATI, INDIA	▶ HYD HYDERABAD, INDIA	Aircraft: AIRBUS INDUSTRIE A321 JET Distance (in Miles): 260 Stop(s): Intermediate at HYDERABAD, INDIA Change of equipment may be required Meals: Snack
	Departing At: 2:15pm Terminal: Not Available	Arriving At: 3:20pm Terminal: Not Available	

Passenger Name:
» PERAM/DWARAKANADHA REDDY MR

Seats:
Check-In Required

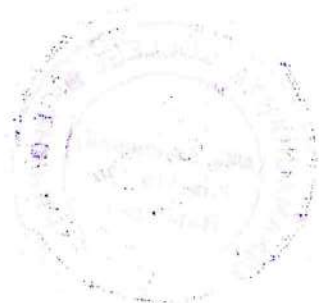
DEPARTURE: FRIDAY 09 MAR Please verify flight times prior to departure

AIR INDIA LTD. AI 0541 Duration: 2hr(s) 15min(s) Class: Economy / Q Status: Confirmed	HYD HYDERABAD, INDIA	▶ DEL DELHI, INDIA	Aircraft: AIRBUS INDUSTRIE A321 JET Distance (in Miles): 783 Stop(s): 0 Meals: Snack
	Departing At: 4:15pm Terminal: Not Available	Arriving At: 6:30pm Terminal: TERMINAL 3	

Passenger Name:
» PERAM/DWARAKANADHA REDDY MR

Seats:
Check-In Required

AI AIR INDIA LTD. Contact (DELHI, INDIA) — 23736446-49/23731225



[Signature]
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NEW BOYANAPALLI-516 126
RAJAMPET, Kadapa Dist. A. P.



DEPARTURE: FRIDAY 09 MAR ▶ ARRIVAL: SATURDAY 10 MAR

Please verify flight times prior to departure

AIR INDIA LTD.
AI 0314

DEL ▶ **HKG**
DELHI, INDIA HONG KONG, HONG KONG S A R

Aircraft:
BOEING 787-8 JET

Duration:
4hr(s) 45min(s)

Departing At:
11:15pm
(Fri, Mar 9)

Arriving At:
6:30am
(Sat, Mar 10)

Distance (in Miles): 2331

Class:
Standard / S

Stop(s): 0

Status:
Confirmed

Terminal:
TERMINAL 3

Terminal:
TERMINAL 1

Meals:
Meals

Passenger Name:

» PERAM/DWARAKANADHA REDDY MR

Seats:

Check-In Required

AI AIR INDIA LTD. Contact (HONG KONG, HONG KONG S A R) — (852) 2522-1176

DEPARTURE: MONDAY 12 MAR Please verify flight times prior to departure

AIR INDIA LTD.
AI 0317

HKG ▶ **DEL**
HONG KONG, HONG KONG S A R DELHI, INDIA

Aircraft:
BOEING 787-8 JET

Duration:
6hr(s) 0min(s)

Departing At:
6:00pm

Arriving At:
9:30pm

Distance (in Miles): 2331

Class:
Standard / S

Stop(s): 0

Status:
Confirmed

Terminal:
TERMINAL 1

Terminal:
TERMINAL 3

Meals:
Meals

Passenger Name:

» PERAM/DWARAKANADHA REDDY MR

Seats:

Check-In Required

AI AIR INDIA LTD. Contact (DELHI, INDIA) — 23736446-49/23731225

DEPARTURE: TUESDAY 13 MAR Please verify flight times prior to departure

AIR INDIA LTD.
AI 0542

DEL ▶ **HYD**
DELHI, INDIA HYDERABAD, INDIA

Aircraft:
AIRBUS INDUSTRIE
A321 JET

Duration:
2hr(s) 5min(s)

Departing At:
9:50am

Arriving At:
11:55am

Distance (in Miles): 783

Class:
Economy / Q

Stop(s):
Intermediate at
HYDERABAD, INDIA
Change of equipment
may be required

Status:
Confirmed

Terminal:
TERMINAL 3

Terminal:
Not Available

Meals:
Snack

Passenger Name:

» PERAM/DWARAKANADHA REDDY MR

Seats:

Check-In Required

[Signature]
PRINCIPAL
ANNAMACHARYA COLLEGE OF PHARMACY
NEW BOYANAPALLI-516 126
RAJAMPET, Kadapa Dist. A. P.





DEPARTURE: **TUESDAY 13 MAR** Please verify flight times prior to departure

AIR INDIA LTD.
AI 0542

Duration:
1hr(s) 0min(s)

Class:
Economy / Q

Status:
Confirmed

HYD
HYDERABAD, INDIA

Departing At:
12:35pm

Terminal:
Not Available

► **TIR.**
TIRUPATI, INDIA

Arriving At:
1:35pm

Terminal:
Not Available

Aircraft:
AIRBUS INDUSTRIE
A321 JET

Distance (in Miles): 260

Stop(s): 0

Meals:
Snack

Passenger Name:

» PERAM/DWARAKANADHA REDDY MR

Seats:

Check-In Required

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TRAVEL CONSULTANT RP

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