

Volume 7, Issue-8(2), August, 2020
International Journal of Academic Research

Edited by

Dr.Haniyuru Chandre Gowda

National Folk & Tribals Scholar Dept. of Kannada, HOD, SIMS, Bengaluru,
Karnataka

IJAR-ACHIEVED PULICATION EXCELLECE AWARD FOR OUTSTANDING CONTRIBUTION IN THE FIELD OF
INTERDISCIPLINARY RESEARCH

Published by

Likhitha Publications
Kakinada-533005 &
Visakhapatnam – 530 017
Andhra Pradesh – India
website :www.ijar.org.in

Office Address

Dr.T.V.Ramana, (9948440288)
4-105/1, Srinivasa Nagar,
Vakalapudi (P), Kakinada-533005
Andhra Pradesh-India
e-mail: drtvramana@yahoo.co.in

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Editor-in-Chief, IJAR –Vol.7, issue 8(2), august, 2020

Typeset and Printed (Sucharitha publications) in India:

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August, 2020

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Editorial

Integrate and harmonize the intellectuals concerning various disciplines is a great task in the dynamic world. Meanwhile, International Journal of Academic Research - A Common Platform of Voice of Intellectuals as Change Agents for better Society' has been taking care towards the stare with the well acknowledged advisory and editorial committee speaks of strong backbone and its conscious action to deliver the best to the society, state, nation and the world by its unique features covering the areas of Social Science, Humanities and Technology. To add to this thought and idea, with the contributors from various university Professors and institutions of national and international importance, IJAR establish its credibility with the continuous effort to deliver the qualitative aspect of International repute.

IJAR enriches the world by adding the committed dynamic researchers and wish to utmost cooperation from the readers and intellectuals of institutions, universities, colleges etc. in improve the journal. IJAR believes that the present Issue enriches the aim of the journal. IJAR is conveying special thanks and congratulations to the participants with their valuable writings.

This volume is the glimpses of voice of authors that are enthusiastically associated with various issues of the journal. The present special issue is really useful to reference for multi-dimensional aspects. I am grateful to the paper writers for their valuable contributions on different dimensions of disciples.


Editor-in-Chief





ʔoiU/ɛ̃ Uãã1zg aqÁgÁZɛ PxAiÁ DAIÁ "ÁU, ʔAʔE, gɛɛ, PÁaÍAgÁÁ, ɛ,
 gÁWÁÁAPE PÁaÍÁU aÍAvá@z, aZEU/Á, QÁvðEU/Á DzÁp, Á»vÍ ʔPÁGU/Á, ɛÁIPz
 "ÁUu/ eʔvU aÁPgt aɛ̃ C"1, ÁaÍzÁ PqÁAIÁÁVgÁvz. °ÁU ɛÁrZg, C°
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 Cx aÁ «±ÁmuAiÁɛ̃ °a, Áa GvgU/ɛ̃ mJÁQ, ÁaÍzQAv@E °ZÁV, ʔoiz, ÁgÁA±
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 aÁAZ aÁjPAiÁU°Á, Sg a tUAIÁ° ʔɛr aÁAiÁɛ̃ °a, ÁaAv° ʔoiU/Á ʔz« ʔoiU/° E@
 JAS DʔÁzɛAiÁ eʔvU, «ZÁyðU/2U PmÁU"ÁgzAS P@aÍ aÁzU/Á "ÁmÁʔoi
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 ðU£¥r, -ÄVgÄvz. F jÄwAiÄ C"Äi, ¥Ä, PaÄ P£iqP CUViªÄvZÄi, «zÄyðU¥/ªEÄ
 CzAiÄÆz° vÆQv¹PÆ¥/ªÄ EzjAz, ÄziªÄUÄvz. F CA±z eÆvU, vgUwU¥/ª°
 «zÄyðU¥/ª, ASi «Äw-Äzi°ªÄiÄÄQP UªÆª°j.®Æ, ÄziªÄUÄvz.

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 Cx aÁ D,QAIÄEÄ aÄEr, Äa, Á»v|z ``ÁU aEÄ ¥o|z°, Äj, Äa|zÄ Dz|vAiiÁU ``ÄPÁVz.
 AiiÄa|zÄ ¥oiaEÄ ðU¢¥r, Äa, Äz ``ðz° CzP, AŞAc¹zAv ZZðAiiÁU ``ÄPÄ, F



jĀwAiĀ ZZĪU%Ā ĒĀiĀPĀ^a, I DU^oĀgzĀ. Ÿoi^aĒĀ DAiĀ aiĀrz aĀ^o CzPĪ PĀgt, CzĒĀ vgUwAiĀ^o ^oĒĀĊ, @Ā, ĒPĀĀVzAiĀĀ? CAV^o ŸĀo PĀ%Ā^ao «zĀiyġ D,Q vĒĒj, ĀvĒĒAiĀĀ? JASĀzĒĀ ĊĀWġ^aĀV, ogAvg^aĀV ^oĀUĒ aĀPĀĀV Zaġ, ^oĀPĀ. AiiĀgĒĀ P@^aĪ aiĪQU%^a D,QAiĀĒĀ ĒrĀ ^oĒĀzP, aĀĀzĀAiĀ ^oĀUĒ «zĀiyġ^aĒz aĀ^o ^oĒj, Ā^aĪzĀ CŸĀAiĀPĀjAiĀUĀ^a, Āziv Ēz. ĒzĒĀ aiĀŸġr, @Ā ŸAiĀw, ^oĀPĀz CĀ^oĪPv ĒĀĪ aĀĀĊz. ĀziĀĀzg C^oĀĪ, P (Work Book) CĀPĀ^oĀĀUĀ^aAv^o Ÿoi^aĒĀ oUĊŸr, Ā^aĪzĀ, ĒPĀĀVgĀvz. CAz, EAVmĪ Ÿoi^z jĀw ĒĀĪ PĒlq Ÿoi^aĒĀ ĊĒĀ, j, ^oĀPĀz@. «μAiĀU%ĒĀ oĀr, Sg^atUU Cx^aĀ aiĀvĒĀqĀ^aĪzPĪ CĀPĀ^o aiĀrPĒqĀ^o Cx^aĀ Ċfġ SgAiĀĀ^aĪzĀ aĀĀAvĀz PĒ^oĀĪzĀjv C^oĀĪ, PĪ CĀPĀ^o aiĀrPĒqĀ^o CĀPĀ^ogĀvz. F DzĀgz aĀ^o, DAVjP CAPU%ĒĀ oĀq@^a oĊġ aiĀĒzAq^aĒĀ oUĊŸr, S^oĀzĀVz. Ā^aĪĒĒĀĀV ^oĒ, UĒlq, Ā^ovĒĒĀ Ÿoi^aĀV oUĊŸr, Ā^aĀU P« Cx^aĀ ĀRP AiiĀgĀ Cx^aĀ CĀĒ, Ā^aĪĀfP »Ē Cx^aĀ Evg^aĒĀĀQP «μAiĀz Ÿ^o Gzi«^aĀvz. CAzg ŸĀŸ, gĒĪ, dĒĪ, ^azEPĀggĀ, ^oj^og, gĀWĀĀP, PĀiĀgĀĪ, QĀvġEPĀgg Ÿoi^UĒĀ oUĊŸr, Ā^aĀU CĀg^aĒĀĀQP «μAiĀU%VAv^oĒ CĀg PĀ^aĪz^ogĀ^a a^tġĒ Cx^aĀ WĒU%Ā aiĀv aĀRĀ^aĀUĀvĀ. «^aĀ^oġAiĀĒĀ aiĀqĀ^aĀU aiĀv ^o%UĒlq, Ā^ovĒz SUI Cx^aĀ P«AiĀ SUI DPĀŸU%Ā ^oĀĪv^aAiiĀzgĒ, CĀgĀU%Ā SgĊgĀ^a PĀ^aĪz ^oĀUĒĀ oUĊŸr, Ā^aĀU, S^o%μĀ, Āz^oġ^o, aĀĀzĀAiĀz MĪU^oĀgĀvz. ĒwĀĒ aμġU%^o P@^aĪ ŸjP@ĒU%^a(yĀ^aii) »ĒĒAiĀ^o, CĀ^oU%^oU, AŠĀĊ^ozAv P@^aĪ ŸĀoU%ĒĀ oUĊŸr, ĀUĀwz. F SUI ĒĒĒĀ KĒĒ nĀP aiĀqĀw^oĀzgĒ, Ē^oĒ Ÿoi^UĀ yĀ^aii DzĀjv^aĀVzġĒ, Ÿoi^UĀ UziĀĊĀ, ŸziĀĊĀ, ĒĀĪPĀĊĀ DVgĀvz. Ēzg^o UĀĒĒ^oj, ^oĀPĀz yĀ^aii ©Īg, G^ozAv Ÿoi^o ĊzĀ DVgĀvz. CAzg, AiiĀ^aĪzĀzgĒ MAZĀ CĀ^oz SUI ^oaĒ aĀ^ovĒĒĀ PĒq^oĀPĀUĀvz. CAzg, Ÿoi^U%^oU, AŠĀĊ^ozAv ŸjP@ĒU%ĒĀ oĀrz jĀw ^oĒ, zĀ. ŸĒĒĀ Ċx^aĀ ŸĒgP Ÿoi^z ĊrAiĀ^o P@^aĪ, Ā^ovĒ Cx^aĀ ĀĒĒĒ ^oĀU ĒĊvĀzgĒ, CĀ^oU%Ā Ÿoi^o, AŠĀĊv CĀ^ozĀVzĪ^a ^oĒgĀ aĀRĀ^aĀUĀ^aĊ@.

Ÿoi^o Ppt^aĀVzĪ^o «zĀiyġU%^o Ċ^oĀAiĀġ^aĀV D,Q Sg@Ā, ĀziĀĀUĀvz. «ĒĒĀ aĀVĀ aĀtdĪ «zĀiyġU%Ā, PμĀVgĀ^a «μAiĀU%ĀVgĀ^a Utv, ^oĒvĀ^o, g, ĀAiĀĒĀ^o, fĀ^aĀ^o, ^oPĀ^o, DzĀAiĀ vjUU, AŠĀĊ^ozAv Pμz, ^aĀ, U%ĒĀ ĊĒġ^oPĒqĀ^o ^ozĀ CAPU%ĒĀ U%^o, @Ā ŸAiĀw, ĀvĒĒ. PĀ Ÿz«AiĀ «zĀiyġ ĊĒĀP «μAiĀU%^ogĀ^a aĀiSĀĒĒ, Ēw^oĀ, z ĊĒĀP WĒU%^o ĒĒŸ^oĪĀPĒqĀ^o NzS^oĀzĀ^o, PĒlq ^oμAiĀ Ÿoi^U%^o aiĀv F, ^aĀ, Ī, ĪĪAiĀUĀwgĀ^aĪzPĪ PĀgt KĒASĀzĀ ĒĒĒ w^oĪAiĀw@. S^oĀ^oĪ EAVmĪ ^oμAiĀ aĀ^oĒ aĀ^aĒĒ^oĊz, Ÿz«AiĀ^o PĒlq ^oμAiĀĒĀ F jĀwAiĀ, AĊUĪ^o 1@Q, ĀwgĀ P@^ag GzĀ^o ĒzĀVgS^oĀzĀ. gĀĒĒAiĀ ĒĒvU, ^aġvĒĒĀĀR ^o%^atUU CĀ^ozĀVgĀ CĀ^ozĀU%ĒĀ w^o, Ā^a ^oμĀŸoi^aĒĀ NzĀ^aĪzĀ Pμ JASĀzĒĀ ^oĒĒPgĀ DPĀ^o, Ā^aĪzĀ, jĀiĀ^o.

NĊz PĒq^oĀ Ċxġ^aĀUĀ^a ŸĀoU%^ozĪ^o, Ċx^aĀ ^oaĒ «^agu ŠAiĀ, zAv^o Ÿoi^ozĪ^o, vgUwAiĀ^o ^oĒĀĊ, Ā^aĪzĀ Pμz PĀAiĀġ^aĀVgĀvz. ĒAv^o, Āz^oġ^o CĀg^o D,QAiĀĒĀ GĀĪ^aĪqĀ^aĊg^o, CĀgĒĀ vgUwAiĀ^o PĒj^oPĒ%Ā^aĪzĀ zĒq, Ā^aĀUĀvz. ^oĒĒPgĀ Ÿoi^U%ĒĀ «^aj, @Ā ŸAiĀw^oz^o, ĊzĀŸPgĀ ^oĀ, g SgĀ^aAv ŸĀo aiĀqĀvĀg



¥oiªEÄB ga¹P/EaQ a^{ÄÄ} Ppµ DgÄ/Ä a µðU/ÄZg/E CzEÄB a^{ÄÄ}AZäg¹Z°, ¥oiGZEÄiÄ
 gÄdPÄg t, ¥oi¥Ä, PÜ¼ P/Egv Pr a^{ÄÄ}AiiÜÄ^a, ÄZiv Ez. EzjAz, ¥Z« ¥jÄPAiÄ
 ,Az¹ðZ° MAZÄ, «Ä,giE° PEiq ÄµAiÄ j|Ä|giE ÄÄ¹ÄgÄ ¥±¥wPU¼EÄB
¹Zi¥r, Ä^a|ZÄ v¥ÄvZÄiÄ®Z, ¥±¥wPAiÄ UEAZ®U¼EÄB v|¹ZAvÄÜvZ.

¥z« vguUw¼° aÍv PElq ¥oi «µAiÜ½ DAiÄAiÄ zÆq , aÄ , AiiÄUwGäaÍz
 PÁgt aÄEASÄZÄ w½AiÄw®. PElq , A , wAiÄEÄ G½¹- ¼¹ JAZÄ "Æ" °ÁPwGäa F
 , Az "ðz° , ¼UElq , Ä»v¹EÄ °Æ, UElqPl CEÄÄÄ¹, Czg , ÁgÄÄ±EÄ aÍv °Ä½
 Czg aÄE®¥oiEÄ Pí®Qäa jÄwAiÄ , jAiÄzÄz®. µUÇv ¥oiPl , ASÄ¹zAv CUVi«zÍ
 CzÄiPjU vg "ÄwAiÄ PÄAiðUÁgEÄ K¥ðr , ÄaÍzÄ , EpaÁVzÄ , EzjAz CzÄiPj
 aÄ°gäa , AzÄ°aÄzgÆ zÆgäAUÄvz. Ezg eÆvU AiiÄaÍzÄzgÆ ¥oiEÄ
 µUÇ¥r , ÄäAU , ÄziäÄzµE , A¥Etð "ÄUaEÄ Cxä¹ µÇðµ "ÄUaEÄzgÆ EqäaÍzÄ
 M½AiÄzÄ. ¥aÍt °ZÄzgÆ , « , v «µAiäEÄ w½ , ®Ä , ÄziäAUÄvz. AiiäaÍzÄ ¥oi
 SÄzgÆ Czg eÆvAiÄ°AiÄ C¥ , g K½äaÍzPl PÁgt , ¥oiQAv®E EäE½Vgäa äAiÄQP
 ©Eiv , ÄÄ , wP gÁdPÁgt aÄÄRi PÁgt aÄUwGäS°ÄzÄ. AiiäaÍzÄ ¥oiU½EÄ µUÇ¥r¹zgÆ
 «zÄiýðU½ Cä°ÄAiÄðv-ÄAZÄV CzÄiÄE aÍq "ÄPAUÄvz. CzPl ¥EgP aÄVÄagt aEÄ
 , È , "ÄPÄVgäaÍzÄ Cviä±ÄÄvz. Cäv° aÄVÄagt aEÄ , È , ÄÄt. ©EivAiÄEÄ aÄgvÄ ,
 ¥oiEÄ µUÇ¥r , ÄäAU , ÄziäÄzµE aÄnU gAdE , "Äµ P°P eÆvU fÄÄE , ASÄÇv
 ¥oiU½EÄ °ÄUÆ vguWaiÄ° "ÆÄÇ , ®Ä , ÄziäAUÄ ¥oiEÄ , ÄaÍfP EÄAiÄz
 ¥j¥Ä®EÄiEÄÇU DAiÄ aÍqÄÄt. EzjAz vguWÄzgÆ M½AiÄ aÄVÄagt
 GÄiÄiÄrZÄVÄÄvz.



CAiAiAiAV ««z °ÄzU¼EÄ ¥qz gÁdQÄAiÄ C¢PÁgz° ¥Á®Ä ¥qAiÄÄa½P CziAiÄE 1Ä«ÄVªÄVz.

PÆÄµP:01

P. A	eÁw	1988g ±ÄPqªÄgÄ dE,ASi	2007g ±ÄPqªÄgÄ dE,ASi	2013g ±ÄPqªÄgÄ dE,ASi
01	°AUÄ¬Äv	15.33%	15.42%	15.85%
02	MPi°U	10.08%	10.64%	10.35%
03	¥.eÁw	16.07%	16.07%	18.37%
04	¥.ªUð	06.72%	18.07%	12.45%
05	°Á°it	03.45%	03.81%	02.85%
06	»AzÄ½zªUð	31.06%	32.00%	31.21%
07	Evg	15.93%	12.23%	09.05%

ªiÄ»w:www.karnataka.kar.nic.in

ªÄÄ®Äq PÆÄµPz ¥PÁg PÆÄðIPz° Cw °ZÄ dE,ASi EgªÄ½zÄ »AzÄ½zÄªUðU¼Ä JgqEÄ,ÄEz° ¥j²µ eÁwªÄvª ¥j²µ ¥AqU¼ dE,ASiÄEÄ® °ÆA¢z. F P¼PAq PÆÄµPz° 1952 jAz 2013 gªJU PÆÄðIPz «zÄE,°AiÄ° eÁwªÄgÄ ¥qz,ÄEÜ¼Ä «ªgªEÄ® ¢Äq¬ÄVz.

PÆÄµP:02

ಕ್ರ.ಸಂ	ಜಾತಿ	1952	1957	1962	1967	1972	1978	1983	1985	1999	2008	2013	2018
1	ಲಿಂಗಾಯತ	18	72	69	70	58	53	65	65	69	59	50	58
2	ಬೃಹಲಿಗ	42	46	57	67	47	47	54	52	47	52	54	42
3	ಬ್ರಾಹ್ಮಣ	06	18	12	18	14	16	16	11	12	11	11	14
4	ಪ.ಜಾತಿ/ಪ.ವರ್ಗ	19	29	29	29	32	37	35	35	37	54	54	55
5	ಮುಸ್ಲಿಂ	0	09	07	08	12	17	02	09	0	11	11	07
6	ಕ್ರಿಶ್ಚಿಯನ್	0	02	01	03	03	03	03	03	0	0	02	01
7	ಹಿಂದೂದವರ್ಗ	12	25	25	27	42	52	47	50	36	35	36	38
8	ಇತರೆ ಮೇಲ್ಜಾತಿ	0	0	0	0	0	0	0	0	0	0	06	07
9	ಒಟ್ಟು	97	202	200	202	212	225	222	224	222	222	224	222

ಸಂಸ್ಥೆ:WWW.CEOKARNATAKA.KAR.NIC.IN

ªÄÄ®Äq PÆÄµPz ¥PÁg ¥j²µ eÁwªÄvª ¥j²µ ¥AqU¼ª °aE dE,ASiÄEÄ® °ÆA¢z½gÆ PÆÄðIP «zÄE,°AiÄ° dE,ASiU CÆÄÜÄtªÄV «zÄE,°U CAiAiAiAV®. 2018g° PÆÄðIP «zÄE,°U £qz ZÄEªªUÄi° ¥ªÄgÄ ¥.eÁwªÄvª ¥.¥AqU¼ª ¥qz,ÄEÜ¼Ä® UªÄ®¹zÄU ±Ä.30.82QÄv °aU dE,ASi Egªª ¥.eÁwªÄvª ¥.¥AqU¼ª



dEÁAUZ^agĀ °aE gÁdQĀiĀ ¥ÁZÁE\iAiĀEĀ °EA¢® JAS CA±U¼Ā ,µ^aÁV UĒĀZg^aÁUĀvz.

F^aĀĀ°E JĀ PĒĀµPU¼EĀ ¥j²Ā°1zÁU ,µ^aÁUĀ^a CA±^aAzg, PĒĀđIPz° °AUĀ-ĀvgĀ^aĀvĀ MP°UgĀ Cw °ZĀ gÁdQĀiĀ C¢PÁg^aEĀ ¥q¢zĀ dE,ASiAiĀ° C¢P«gĀ^a° ¥j²µ eÁw^aĀvĀ ¥j²µ ¥AqU¼Ā Pr^aĀ C¢PÁg^aEĀ ¥qzĀ ÉĀiAiĀiĀv ¥Á¢EĀ ¥qzĀPĒAr®. EzPĀ °®^aĀgĀ PÁgtU¼EĀ UĀgĀw, S°ĀzĀ. C^aU¼Azg, gÁdQĀiĀ ¥eĀ °EAzz EgĀ^azĀ, ¥g,g °EAzĀtP E¢z EgĀ^azĀ, ²Ptz PĒgv. AiĒEĀUĀ ÉĀAiĀPvz PĒgv, SqvE, CĒPgv »ĀU °vĀ-°®^aĀ PÁgtU¼EĀ UĀgĀw, S°ĀzĀ.

,®°U¼Ā:

¥j²µ eÁw^aĀvĀ ¥j²µ ¥AqU¼Ā PĒĀđIPz° ±Ā,£ ,°U¼° vĀĀ dE,ASiAiĀ ¥^aiĀtPĀ CĒUĀt^aÁV ¥Á¢Ā ¥qAiĀĀĀPÁzg:

C) gÁdQĀiĀ ¥eĀ °EAzĀĀPĀ

D) vĀĀ°gĀ^aĀ^aiĀiQP »vĀ,QU¼EĀ ©ĀĀ ,Ā^aĀE»P »vĀ,QUÁV ,AWnvGÁUĀĀPĀ

E) ,A«zÁEÁvP^aÁV gÁdQĀiĀ «ĀĀ,ĀwAiĀEĀ ¢ĀqĀĀPĀ

F) CyđP^aÁV ¥S°^aÁUĀĀPĀ

G¥,A°Āg: PĒĀđIPz° ¥S° PĒĀ^aĀU¼Āz °AUĀ-ĀvgĀ, MP°UgĀ, °Ā°itgĀ °ZĀ gÁdQĀiĀ ¥ÁS° °EA¢zĀ w½zĀSgĀvz. ¥j²µ eÁw^aĀvĀ ¥j²µ ¥AqU¼Ā gÁdQĀiĀz° ,ĀPµĀ ¥ÁS° °EAzz EgĀ^azĀPĀ ¥ĀĀR PÁgtU¼Azg, ²Pt PĒgv, ¥g,g^aĒĀE,Ā, UĀĀ¥ĀUĀjP, CyđP^aĀvĀ gÁdQĀiĀ ¥eAiĀ PĒgv JĒS°ĀzĀ. ¥j²µ eÁw^aĀvĀ ¥j²µ ¥AqU¼Ā dEgĀ ¥g,g °ZĀ eÁUĀvzg gÁdQĀiĀz° °ZĀ °ZĀ gÁdQĀiĀ ¥Áw¢zĀEĀ ¥qAiĀS°ĀzĀ. PĒĀđIPz° r.zĀ^agĀdĀ Cg,Ā ÉĀvĀvz ,PĀđg ¢Ārz ,Ā^aiĀfP ÉĀiAiĀz ,^aiĀEv-ĀAz ¥j²µ eÁw^aĀvĀ ¥j²µ ¥AqU¼Ā^aUđU¼Ā PĀĀitz°^aĒEĀUĀĀ-ĀvĀ. °ÁUĒ 2013g°^aiĀEĀ²Ā 1zĀgĀ^aĀiĀ C^ag ÉĀvĀvz ,PĀđg ¢Ārz ,Ā^aiĀfP ÉĀiAiĀ AiĒĀdE¼Ā, CyđP^aĀvĀ ,Ā^aiĀfP ,Ā^aASĒ AiĒĀdE¼ĀEĀ eĀjU vA¢zĀ, EzjAz ¥j²µ eÁw^aĀvĀ ¥j²µ ¥AqU¼Ā^aUđU¼Ā gÁdQĀiĀ fĀĒE^aĀĀEĀ ,ĀzĀj¹PĒv¼ĀĀ ,ĀziĀÁVz.

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The emerging of "Python" from 'C','C++' and "Java"

-Mahesh D M

Assistant Professor, PG Department of Computer Science
St. Philomena's College, Bannimantapa, Mysuru. Karnataka.

Abstract: New tools and techniques are required in software industry to look for a new approach in the system design and developments. Python a new open source and free programming language came into this generation by inheriting. All the features of other programming languages along with additional features which may be required in future in order to make calculation and analysis. As much faster as possible and replacing other programming languages from its salient features and programmer friendly environment.

Keywords: Multi task, data science artificial intelligence, Machine learning, pandas, Django, matplotlib, Matlab, C, C++, Java, Python

Introduction:

According to the experts analysis new programming languages will come after some years and it will be implemented in all the sectors. In order to overcome the drawbacks of the earlier program which they have been using so far. Python came not only with overcoming drawbacks but also with additional features like data science, artificial intelligence machine learning, app development, web framework, networking, deeplearning. we shall see how the features in one programming language differ from other languages and how the drawbacks have been overcome by the new programming languages in order to accomplish the task in a limited period of time along with additional results so that the result will be easier for future analysis purpose for the sake of comparison. we shall consider C programming java programming and C++ programming because these are the languages started ruling the whole world in the beginning with their user friendly environment and also in software development field. Meanwhile we can look into few factors

which made python programming a programmer friendly and a rich set of modules

C Programming

C programming came in 1970's by denies Ritchie. by his grace we got an easy and English like high level language to accomplish our task in human understandable format. we cannot deny that this C language is like an alphabet in the world of programming languages later many tools came into the market to implement the logics using C programming. earlier we had a drawback like we were not having any other high level languages to implement our algorithms for calculation and analysis purpose. So we got new programming languages with few features. If we are writing a simple program using C programming we have to ensure that all the variables have to be declared properly and relevant header files are inherited according to the functions we are using in our code. As we know that C programming is a platform dependent, gives importance for the procedure



rather than data. So it is procedure oriented programming language it will not supports object oriented concepts so that while performing any task it will consider each task as a function, we cannot expect parallel computing in C.

The reason behind innovation of new programming languages, our needs grows bigger and expectation are increasing along with drawbacks of earlier programming language; like C programming is platform dependent means program written in one architecture requires few changes to be done in order to implement the same in another architecture. It is procedure oriented where data is given a least priority rather than procedure, one complete task is accomplished as a function, it has few keywords for implementations.

C++ PROGRAMMING LANGUAGE

C++ came into the field of technology in 1980's by Bjarne Stroustrup after inheriting earlier features of C language. We know that arrival of new programming language will overcome the drawbacks of earlier programming languages, as we have mentioned few drawbacks of C programming languages were overcome like C++ will give priority to data rather than procedure, so it came with object oriented approach which internally introduced the features of OOPS concepts like data abstraction, inheritance, polymorphism, data encapsulation,

Once the drawbacks of earlier programming language is overcome later software developers started facing few issues with the current programming language like C++. That

is there is no security for the data so after the process the data should be secured, still it is platform dependent and lack of parallel programming, in the sense threading concept means multitasking facility is not available so these drawbacks lead to the searching of a new programming language to overcome these features then the Java came into existence.

JAVA

By inheriting the features of C and C++ Java came in 1990s by James Gosling. It is considered as a middle level language with a logo of a coffee cup it came with the solution for the drawbacks in C++ programming languages. So, Java is a platform independent so that the developer or a researcher need not to worry about the platform while solving his problem by using Java. Threading concept was introduced so that multi tasking facility is available for the user so that we can expect parallel processing to accomplish the task to reduce the execution time. It supports security also

It came up with additional features like software development, application software development user interface design but it also having some drawbacks like performance where comparing with earlier programming languages. We have discussed Java is slower. It requires more memory for some large tasks. It supports user interface feature design, but it is limited. Code length also increases so the information technology field is little starving for a new simple and user friendly programming language to overcome all the drawbacks listed so far in previous languages along with



additional features for future purpose so the name is Python

PYTHON

We are not sure about the exact release of Python programming. Some experts say Python came before Java, but we shall consider the time it came into the developers' hand. In 2000's when we were in 5th generation of technology where artificial intelligence, robotics, neural networks, machine learning, deep learning, data science, meanwhile we cannot forget the contribution of MATLAB tool which helped many people in the field of mathematics to process high level problems and in the field of computer science in pattern recognition and image processing domain

Day by day calculations and analysis started increasing in many fields like economical prediction, business analysis, big data, data mining, robotics etc. So that data science came into picture besides that artificial intelligence, machine learning also in the race to hit the new generation to help the researchers and scientists to reduce their time by providing lot of method to accomplish the task in limited time with more proficiency. Anyhow It has inherited all the feature of C programming, C++ Programming and Java Programming and few more and it overcomes the drawbacks of previous language. Besides overcoming it has introduced new technicalities to the researchers and developer so that this paved the way of solving the problems in a new and efficient way. As it includes frame work like Django to develop application software's, it has a module like 'matplotlib' to reflect the

working and mechanism of MATLAB because in the recent years most of the researchers used MATLAB as their tool to accomplish their task related to mathematical computation, image processing and pattern recognition so can we expect this functionality in Python? The answer is yes. It provides the environment of MATLAB so that users can implement their algorithms how they were using MATLAB earlier.

In Java we were having a small drawback of code length, in Python it has been overcome and it has minimized the code length. So that the programmer or researchers need not worry about the code length. As we are in robotics generation where everything works using neural network technologies which is a stepping stone for machine learning, deep learning, artificial intelligence, and many new features were added in Python. It provides environment for network management and data security. Now we shall see how python code looks compare to C, C++, and Java programming languages given a problem to add two integer numbers

Following are the sample code to show fundamental difference between other programming languages

If we consider we are writing a simple program to add two integers in C, C++, Java and Python the syntax itself shows that declaration of variable required for every variable we use and we have to include header files also below is an example of adding two integers in C, C++ and Java

```
IN C
#include<stdio.h>
void main()
```



```
{
Inta,b,s;
Printf("enter the values for a and b");
Scanf("%d%d",&a,&b);
S=a+b
Printf("sum of a and b is %d",s);
Getch();
}
IN C++
#include<iostream>
Using namespace std;
Int main()
{
Int a, b, S;
Cout<<"enter the values of a and b:";
Cin>>a>>b;
S=a+b;
Cout<<a<<"+"<<b+" "<<S;
Return 0;
}
IN JAVA
Public class sumoftwo
{
Public static void main(string[] args)
{
Int a=10;
Int b=20;
System.out.println("enter the values"+a+" "+b);
Int S=a+b
System.out.println("the sum is"+s);
}
}
```

IN PYTHON

```
X=input("enter the alue of x");
Y=input("enter the alue of y")
S=x+y
Print(s)
```

Conclusion

New programming languages will come after every few years sometimes it becomes challenging for the developers and the researchers to adopt for the new programming language by improving

their programming skills. But we cannot deny the it provides an opportunity to learn and showcase the coding skills for the youngsters. So that they will be exposed for the updated world. Let any programming languages comes the actual fact is if a developer or the researchers are well versed with many programming languages then the new one will be a easy slice of cake for them. Still Python may be having few constraints which will be updated in upcoming days when experts are trying to use Python for different aspects so we can expect a new and efficient programming language in future to ease our work with more efficiency.

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**Mysuru Samsthanada Abhivruddhi Mattu Yeligeyalli Sir
M.Vishweshwaraiah Avara Koduge-Ondu Aithihasika
Avalokana**

-K.N.Ashwini

$a^{\Delta\Delta} \cdot \mathbb{E}g_{\Delta} \cdot A_{\Delta} \cdot \mathbb{A} \mathbb{E}z \cdot \mathbb{C} \odot a^{\Delta} \cdot \mathbb{C} \cdot a^{\Delta} \mathbb{V}^{\Delta} \cdot K \frac{1}{2} U \mathbb{A} \mathbb{I}^{\Delta} \circ \cdot g_{\Delta} \cdot J \mathbb{A} \cdot \ll \pm \mathbb{A} \pm g \mathbb{A} \mathbb{I}^{\Delta} \mathbb{I} \cdot \mathbb{C}^{\Delta} g \cdot P \mathbb{E} q \mathbb{A} U - M \mathbb{A} z^{\Delta} \cdot L w^{\Delta} \mathbb{A}^{\Delta} 1 P$
 $\mathbb{C}^{\Delta} a^{\Delta} \cdot \mathbb{E} \mathbb{A} P \mathbb{E}$

-P.J£i.C²

, °ÁÁİĀP ¥ÁZÁ¥PgÄ, gÁdİ±Á, « ¨ÁU, £Áµ£¨İ ¥z« PÁ~ÄdÄ,
¨ÁUÄ¥°, aP§¼A¥Ag f¨-561207.

C^aÄEnð:

"Ágv gvl ,gí.JA.«±±gAiÄE agÄ Sq PÄIÄSž° d□1, Sqv£a£ÄÄ UzÄI, "Ágv
 gvl ¥qz «±±gAiÄE agÄ ,Äz£ aÄvÄ aiQv ¥zU½U □®ÄPzÄI. F ÄREž°
 ,gí.JA.«±±gAiÄE agÄ aÄ£,£gÄ ,A,Ä£z C©a££I °ÄU£ K½UÄI° a»1z ¥Ävz ŠUI
 w½, -ÄVz. «±±gAiÄE agÄ aÄ£,£gÄ ,A,Ä£z £aÄ£gÄV 1912jAz 1919g agU ,Äa
 ,°1zgÄ. E agÄ v aÄI ŠzÄP£ÄÄ PaÄöAi£ÄVAIÄv "Ä½z agÄ, ŠzÄQrÄ £ÄRu zÄrzÄ ,Äa
 ,°1z £ÄÄI £®z °aÄÄIÄ "ÄgwÄÄIÄ, v aÄI fÄ«vPÄ®z°AiÄÄ zAvPvAiIÄzgÄ °ÄU£
 dUv1zlgÄzgÄ. EAZÄ £ÄÄI P£Iq £®, «eÄ£, vAveÄ£U¼ v ag£gÄVz. E ag ŠÄ££AiÄ°
 «±±gAiÄE ag CUÄz ¥j±ÄÄ, z£gz£¶, ,aiÄd aÄÄT Ai£Äd£U½a. p dÄÄz Cxöž°
 «±±gAiÄE agÄ aÄ£,£gÄ ,A,Ä£z "ÄU«zÄv, DzÄ®P aÄ£,£j£ p aiÄöT p
 PÄgtgÄzgÄ. £ÄÄI J-Ä Dyöp g£ÄU½U£ «zÄIÄÄ, aÄ aÄzÄI JAZÄ E agÄ £Ä©zlgÄ.
 DZljAz-Ä 2Pt PÄvP I°a£ aÄ°v pÄrzgÄ.

^aÄÄRi ¥zU/Ä: JdÄ, Äimi (EDUSAT), KRS, Äimi "ÄiÄPï D¥ï ^aÄÄ, ÄgÄ, «ZÄi, «ÄW, PElq, Ä»vi ¥jµvÄ, ¥qïUÄmi «ÄÄi, nUÄ CuPIÄ, ÄPï ¹, Äii.

! ÄpP:

2Pt vdgÁV PĕUÁjPÁ PÁAwAiĀ °jPÁggÁV CĚĀP PĀvU¼° S°¼μĀ PⓈ, U¼ĚĀ
aiĀr 102 aμĎU¼ PÁⓈ, Z, ĀAzg SzĀPEĀĀ Ěq1z CĤĀwAiĀ C¥wª zĀ±P, ZvĀg
EafⓈAiĀgĭ, zP Dq½vUÁg, ¥ĀªiĀtP, °Ěz-Ā, zAiĭªª-ĀAiĭAz, .gĭ.JA.«±Ā±gAiĀĚªgĀ
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vÁU, S°zĀĚ, PÁyƒ, ±ªªĀĈ S°¼ªÁVz. ĚAzĀ CzĚⓈ CĚĀ-«, Āwgªª ĚªªĀ Cªg
ĬĀtªĚĀ wĀj, ĀPÁVz. CªgĚĀ, j1 CªjUĚAzĀ ĚªĚªĚĚ, °ªªzĀ ĚªĚⓈ Pvdªĭ.
.gĭ.JA.«. JAZĀ dĚĬAiĀgÁVzĬ, .gĭªĚPÜĀAqA «±Ā±gAiĀgªgĀ ĀĠvz UtĬ
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EªgĀ °Ānz ĤĚªĚĀ ĀĠv zĀ±ĀzĀAv «CⓈAiĀAvg ĤĚ» JAZĀ DZj. ĀvÁg.



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aÄwfÄªEz, ÄzE:

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- 3) 1894 ° 1Azī ſÁAvz ,ÁPÆGǻ ſAg, "AiĀ° ðǻgǻ ,gſgǻfU ,ASAZſI «Éǻĭ, °ÓÚÆ PÁAiĀððªðªu. EzjAz PĀrAiĀĀª ðǻjÉ ªĭª, ĩ D¬ĀvĀ.
- 4) vſw £¢¬ĀAz ,Ægvĩ £UgPĭ ðǻgÆzv, Āª PÁAiĀðAiÆǻ£.
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- 14) 1908gª F fſſĩ P£qÁ CªĬjPÁ °ÁUÆ gµĭzĀ±U½U “Ān PÆnzǻĭ,
- 15) 1909 gª ªĀE¹ £¢ ſªÁª¢Az vvj¹zª °ēzgǻ¬Āzi £UgPĭ «±ǻµ ðzǻð±P EafªAiĀgĩ DV ÉĀªĀP, ſªÁª¢Az °Á¼Áz J¬Ā EafªAiĀjAUİ PǻvPĭ , ASAC¹z «ZÁgU¼ ſÁEgĩ ªaiĀðtPĭ MvĀ.
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- 18) 1913gª ªĀE,Ægǻ ¢ªÁ£gÁV ÉĀªĀP, , ĬªðdªP PÁªĀUǻj ªĀvĀ gē E¬AS ªĀªªZágu.
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 , ÄaÄxið PqUt , Äa zÄGÄ©aiÄEPi v“ÄUÄUZÄ” JAZÄ vaÄi ®RÄaÆÄ , r° , z 1908g
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 ¥qzÄPÆAggÄ . @AQEi ¥aÄ , z° zÄU °ëZÄÄÄziPaZ Pg SAÇzjAZ °ëZGÄÄÄzi
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 Pn »aiÄAiäv , Äug aÄvÄ G , ÄEi , Äug «Äð¹ °ëZÄÄÄzi aÄvÄ ¹PAZÄÄzi £UGU½U
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 PÄÄeI D¥i EAfPaÄijAuI) . °AUAiÄÄ aÄE , £egÄ «±«ZÄ®AiÄz “¼atUUÄViÄE
 ±«Ä¹zgÄ .

PÆqÄUU¼Ä:

- [illegible]

„gĩ.JA.« AĩÄ^a jU A¢gÄ^a UËg^a U^{1/4}Ä:

- 1) «±±gAiÄE^agä ¢^aÁEgÁVzÁU ©nÄµi , PÁðg C^ajU “,gi” ¥z «AiÄEÄÄ ¢Är vÄ.



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1) ^aÆÄPUÄAqA «±Ä±gAiÄ¹: ⁻Ä.«.J,i.ÉÁgÄiÄgÄ^ai,

2) "ÁgvgvÄ ,gĩ.JA.«.-qÄ¶ r.J,i. CAiÄ¹¥ UËq

3) <https://kn.m.wikipedia.org>

4) PÉiq ,Ä»vi ¥jµvÄ-(DzÁg:ÉÄ«ÄZAz C^ag ^aÆÄPUÄAqA «±Ä±gAiÄ¹ PÄjvÄz ⁻ÄRE, GzAiÄ^aÄt)

5) ,gĩ.JA.«. "Ágv PAq «±«SÄlv EafðAiÄgi- ,ÄQgÄd.



5.±g^{..} Zjv

6.º jºg aÄºv

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^aÄ°ÁP« °j°gE ,^aÄPÁ°ÁEÆE ,^ag,ÄvEÆ Dz Fv °j°gE ¥^{..}Ä^az ,^{1/4}vPl ¥WÄiiÁV
ÇAvÄ vEiZÄ DzÆAZÄ ¥gA¥gAiÁEÄÄ «Äð¹PEAQ^a.vEU »EÄ^{..}ÄiÄ°zÄ °j°gE gU^{1/4}ÄiÄ^a
ರೀತಿಯನ್ನು ಅನುಸರಿಸದೆ ಮೊತ್ತಮೊದಲಿಗೆ ಷಟ್ಪದಿ ರೂಪವನ್ನು ಪಳಗಿಸಿ ದೀರ್ಘ ಕಥಾನಿರೂಪಣೆಗೆ ಸೊಗಸಾಗಿ
C^{1/4}r¹PEAQZÄ E^aE ^aÄ°vz ,ZÆ.PElq ,Á»viz° P« gEiEÄU^a ಬಿಟ್ಟರೆ ಅಷ್ಟೇ ನಾಟ್ಯ
¥w^{..}ÄiÄEÄÄ ¥Pn¹z ^aÄvÆS P« gÁW^aÁAP.

«ÄgÄ± Zjv °ÄUÆ ±g¨ ZÄjv 2ªÄgÄtZ PxUÄÄ. «ÄgÄ± ZjvÄiÄÄÄ P«
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±ĀQĀ, qĀQĀ, aÍĀj, CĀĀ eĒv EzĠĀ. EĀgĠJUĒĒĀĀ zĀj Ġr¹z. zPĒ ĀĀĀ zĀĀ Jw Ēqz D, ĒĒz aĒRj CĀtĠĀĀĀ PĀĠVJUĀ CĀg PĒ UĀĀqĀUĀĀ. S°ĀĀqĀ CĀg °Ēq, JAqĀUĀĀ. (ZAqĀUĀĀ) ĀĀĀĒ PĒĒtz PĒĀqĀUĀĀ Sru, ZAz, ĒĀĀĠĠg vĀĀ EAx Ut, ĒĒ «ĀĠĀ±Ē CPI-¶Pz° dUzUĠ Ēq-ĀvĀ. CĀg PĀĠĀĀvPĀ “UĀĀ”mĀzĀĀ. C°Az JzĀ zĒĀĀ DPĀĀĒĀ vĠĀĀ. F, ĀĀĀĀĀĀ ĒĀgzĀU āAv ĀĒĒ aÍĀrvĀ. ĀĀĀU aÍÁqĀĀĀg ĀĀĀ °ĠĀvĒ ĒAv° ¶ZAq, ĒĒ zĀĀ aÍĀrzg PtĀ ĀĀĀ vUĀĀĀĀĀzgĒU zPĀĠUĀĀĀ ĒĀĀĀV ĠqĀvĀg JAZĀ ĀĀĀ ±ĀU Nr SĀĠ zPĒĒĀ JZj¹z. zPĒĀzgĒ vĀĀĀ, ĠAz J°ĀĀ PĀĀU JAZ? ĒĀgzĒĀ SgĀwgĀĀ «ĀĠĀ±ĒĒĀ CĀĒ, ĒĒĒĀ vĒĒĀĀ¹z CzPĀ zPĒĀ D PvĀ F, ĒĀĀĠĠĒ ĀĀĀ PĒĀĀ¹ aÍÁqĀĀĀzĀĀz JĒĀv ĀĀĀzPĀ zĀĀUĀĒĀ °ĀjzĀĠĠ¹z. «μ, CVĀ, ĀĀĀĀ, āĠt JAZĀ MĀĒSgĒĀ PĒv PgzĀ Jw Pnz. Sru, PĠĀj, PĒUĠĀ, ±ĀP, ¶ĀP ĀĀĀvĀzĀUĀĒĀ »rzĀ zĀvUĀĀ ĀĀĀzPĀ ĀĀĒĒĀUĠĠĀ¹zigĀzgĀ. «μĀ, ĒĒĀĀĀĀĀv ĀĀĀZĒĒĀĀ° āAv CĀĒ JgqĀ ¶Pz° “UĀĀĀĀ āAvĠĀ EĀgĠ «ĀĠĀ±ĒĒĀ °zj, ĠĀ ĠgĀUĀĀĀĀ ĀĀĀz ĀĀĀWĀĀĀĀĀv, ĀĀĀĀĀzĀ. MĀUq zPĀ ĀĀĀĒĀĀ ĀĀĀzĀĀg¹z.

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Block Chain Technology- An overview

-Arunodhaya K. Nambiar

Assistant Professor, PG Dept., of Computer Science
St.Philomena's College Bannimantapa, Mysore-570015

-Mahesh D M

Assistant Professor, PG Dept., of Computer Science
St.Philomena's College Bannimantapa, Mysore-570015

Abstract:

New technologies bring new perspective for data management. Traditional way of managing data in database requires a centralized server and dedicated resources. The same approach on data can be done by the blockchain technology which reduce the involvement of server and resources, it also gives more efficient ways of manipulating data which is immutable and distributed. It ensures transaction transparency, data security and integrity. We cannot expect Centralized server to be available for all the time. Maintenance cost of server will be increased day by day as transactions increase. It may not be able to serve all the clients. If block chain is replaced by centralized server with decentralized method of data management the waiting time for data accessing, storing and manipulating will be reduced and all the users can get the data within no time.

Keywords: Block chain, genesis block, miner, hash, Merkle tree, consensus

Introduction:

The term block chain was first coined in 1991. Block chain is an open distributed immutable database of records which is resistant to modification of data. It is a distributed ledger that allows transactions in decentralized manner. A ledger consists

of blocks that record the transactions across different nodes. It is a chain of blocks. Each block contains data, hash and the hash of the previous block. Genesis block is the first block whose previous hash value was zero. Changes or modifications made in one block will be reflected among the blocks (Figure 1).

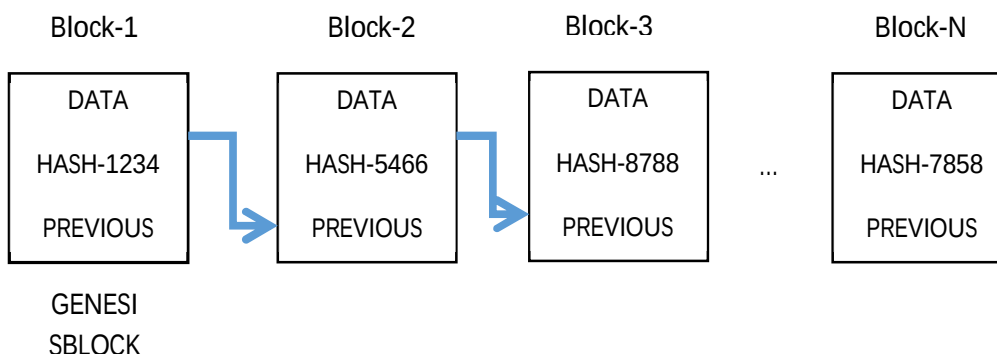


Figure 1: block diagram of block chain



Hash is a unique value to identify a block. When a new block is created the hash value is calculated. 'Previous Hash' contains the hash of the previous block in the chain. The entire system works on cryptography. Different hashing algorithms like md5, sha256, sha512 can be used to generate hash values. For every string the key length is the same, if the key length is different then, it reflects that it has been tampered by an unauthorized person.

A question arises, why block chain?

Generally data is stored, accessed and manipulated by a

centralized server which requires a dedicated resource. Data is vulnerable to get hacked and other forms of attacks and failure of servers also leads to data loss. As blockchain is a peer-to-peer network and reservation of resources are not required. Block chain ensures data security and trust among the participants.

Architecture of block chain

It consists of a set of blocks, each block contains data and a block header. The first block is called genesis block whose previous hash value is zero (Figure 2).

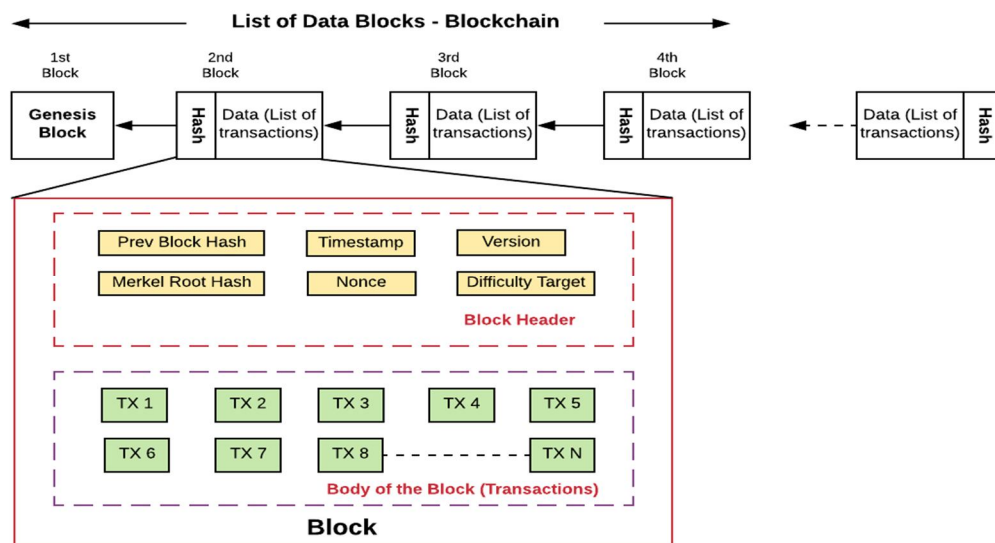


Figure 2: Architecture of block chain

Block header:

A block header is like the metadata that is used to identify a particular block and it consists of

- 1) Previous block hash
- 2) Timestamp
- 3) Version
- 4) Merkle root hash
- 5) Difficulty target

6) Nonce

Previous block hash:

It is a hash value of the previous block.

Timestamp:

It contains approximate creation time of the block or the time when the miner has started hashing the header.

Version:

It refers the version of the block.

Merkle root hash

Merkle tree is a data structure in which leaf nodes are labeled with hash value of a transaction and every non-leaf node is labeled with the hash of its child

nodes. Merkle tree is also known as hash tree. It is constructed with a bottom up approach by repeatedly calculating the hashing values of each pair of child nodes until we get hash value of the root. This is called root hash or Merkle root (Figure 3)

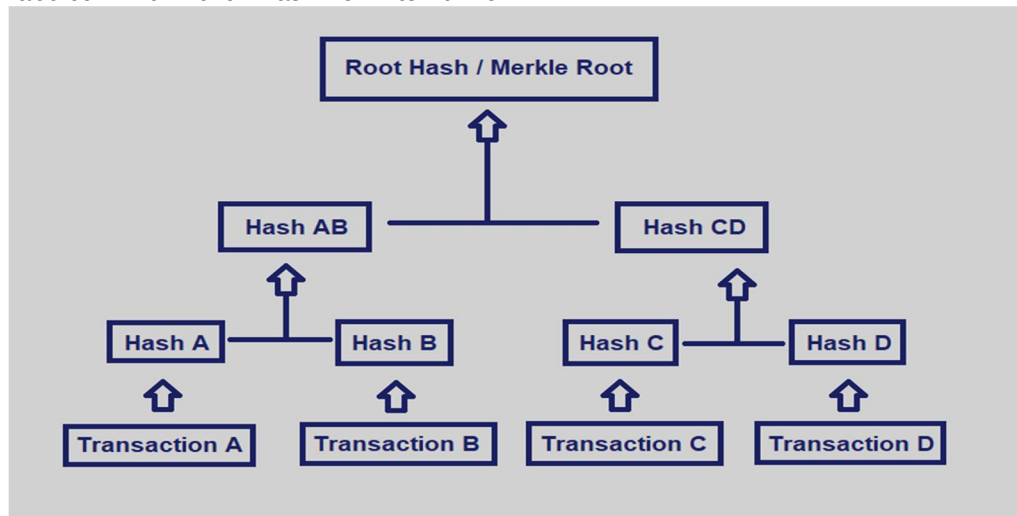


Figure 3: Merkle root

Difficulty target: It is a threshold where the hash value of the block will not go beyond this target value.

Nonce: The Nonce is an arbitrary number of miners change to modify the header hash in order to produce a hash value less than or equal to the target threshold.

Node: In blockchain the blocks are stored in nodes. It can be a computer, mobile phone, router or any other device that is capable of receiving a copy of the block chain. A node can be a full node or a partial node.

Full node Full node stores entire blockchain and verifies new blocks before adding. It can be a miner, that verifies new transactions and update

the ledger, but it requires huge computing power. It is also called fully right ated node.

Partial node Partial node is also called light weighted node. It will not store complete ledger, instead a part of the blockchain which is needed.

Consensus algorithm Block chain is a peer-to-peer network i.e., everyone is allowed to join the network and they will receive a complete copy of the block chain. While creating a new block by a node, same copy of the new block will be distributed among the nodes. Which mining node is going to add new block? Here comes the use of consensus algorithm. There are many consensus



algorithms available, a few are listed below

- a) Proof of Work(PoW)
- b) Proof of Stake(PoS)
- c) Proof of Burn(PoB)
- d) Proof of Capacity(PoC)
- e) Proof of Elapsed Time(PoET)

a) Proof of Work(PoW)

Proof of Work is a mechanism that slows down the execution of new block by ensuring that the miner node is doing some computation. It is used to make valid tampering. All the nodes should spend some computing time to solve a problem and winner node can add a new block.

Disadvantages in Proof of Work

1. The computation is done by brute force method which increases complexity .
2. It requires huge amount of computing power .
3. 51% attack: if more than 50% of the nodes are malicious, it can be hacked easily.

b) Proof of Stake(PoS):

As PoW spends huge amount of computing power for useless computations. We can use PoS to reduce the wastage of energy. Here each node has to invest something to compete to become the miner node and the node with highest stake can add new block. It reduces the chance of participation of malicious node

c) Proof of Burn(PoB)

This consensus algorithm aims to solve the energy consumption problem in Proof of Work algorithm. Here the miner node is proving that they 'burnt' some coins (in crypto currency context). But technically nothing is destroyed, instead circulating to an unspendable address. This address is called eater

address and they have no private key. It provides transparency so that anyone can view the total coins and transactions and nobody can unlock the fund. By burning coins a node can show its dedication to the network and it can be a minor node.

d) Proof of Capacity(PoC)

In this consensus algorithm the mining right is decided based on the available harddisk drive space. Larger the hard disk it can store more number of solutions which increases the chance to match with the required hash and to win the mining reward.

e) Proof of Elapsed Time(PoET)

In this algorithm each node is randomly assigned a waiting time period and goes to sleep. The one who gets up first or with shortest waiting time can be the miner node. It prevents high resource utilization and high energy consumption.

Types of block chain

There are 4 major types of blockchain

1. Public block chain
2. Private block chain
3. Federated block chain
4. Hybrid block chain

1. Public block chain:

It is a block chain which is open to the world where anyone can join and do transactions. It does not require any intermediaries to work and brings transparency to the whole network.

Example: bit coin, ether

Advantages:

- Anyone can join
- No intermediaries
- Transparency

Disadvantages:

- Consumes lot of energy
- Lack of transaction speed
- Less scalability



- Security depends on the number of participants

2. Private block chain

It is a type of block chain which is owned by an entity. It is a kind of centralized because it is under the control of single authority

Example: multichain, hyperledger fabric

Advantages

- Fast
- More scalable

Disadvantages

- Difficult to achieve trust
- Not completely decentralized
- There is a possibility of losing security if some nodes are malicious

3. Federated block chain:

Federated block chain is also called consortium block chain. It is a type of block chain that solves the needs of group of people or companies where it requires the features of both public and private block chain.

Example: energy web foundation, IBM food trust

Advantages:

- More secured compare to earlier types of block chain
- Better scalability
- Better customizability
- More efficient than public block chain
- There will be a Control over the resources.

Disadvantages:

- Less transparent
- Less anonymous

4. Hybrid block chain:

Hybrid block chain is a combination of private block chain and public block chain. It deploys the best between public and private block chains.

Example: dragon chain

Advantages:

- Resistant to 51% of attack

- More scalable
- It offers privacy

Disadvantages:

- Not completely transparent
- Difficult to upgrade to the hybrid block chain

Applications of block chain technology:

- Creation of smart contract
- Storing medical records
- Creating digital notary
- Collecting taxes
- Crypto currency
- Supply chain and logistics monitoring
- Real estate processing platform
- Realtime IOT operating system
- Voting mechanism
- Copyright and loyalty protection

Advantages of block chain:

- Trust, privacy and integrity
- Distributed
- Stability
- Immutability
- Resiliency
- Decentralized
- Instant transaction

Disadvantages of block chain

- 51% of attack
- Wastage of resources
- It may be complex in public block chain
- Inefficient
- Volatile
- Double spending
- Less memory efficient

Future scope:

The future scope of block chain lies in different filed such as cyber security, internet of things, forecasting, networking and supply chain management etc., .It can be used in government systems to make their operations more secure and efficient. This technology will be helpful to



perform the transaction activities much 10. faster and efficient.

<https://www.zarantech.com/blog/future-scope-blockchain-technology/>

Conclusion:

We cannot expect Centralized server to be available for all the time. Maintenance cost of server will be increased day by day as transactions increases. It may not be able to serve all the clients. If block chain is replaced by centralized server with decentralized method of data management the waiting time for data accessing, storing and manipulating will be reduced and all the users can get the data within no time. The same technology can be implemented in all the sectors to ensure cost effective and efficient data management.

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A comparative study on the novel A Daughter's a Daughter by Agatha Christie with regard to the changing trends in the modern society

-Sheldon Leander Williams

Asst., Professor,

PG Dept., of English, St.Philomena's College, Bannimantapa, Mysuru

Abstract

We live in a world that claims to be modern and fast. So goes the thinking of modern man. People often seek after change, but ultimately fail to understand that life has its own course to run. In a relationship love, hope, trust and understanding are a few basic elements that keep things going smoothly. Relationships mean a lot when they are valued, this is not a new concept; it was, it is and always will be something that one will always value. We hear of many writers who showed the world the importance of relationships between parents and children, between two matured adults, and paved ways for us to go deeper with thoughts and feelings that each person goes through in this short phase of life. In this paper I strive to focus on the relationship of a mother and daughter, the view on remarriage of a widow in the eyes of the society and family, resentment and jealousy which leads to fights that end up having complications and the reunion of the broken family resolves all the hatred, resentment and jealousy. I tend to throw light on these changes in relationships in the name of modernity and the drastic impact it imprints in family life with regard to the novel in comparison to the modern world that has modern views.

Key words: relationship, mother and daughter relationship, resentment and jealousy, modern world, turmoil

Introduction

Literature is the embodiment of not merely art but also holds high the mirror of life as it reflects what we actually learn from the understanding of life. Literature paves new horizons to achieve something that gives a different understanding to each one's work of art. When we peruse through any work of art, it just enables us to broaden our understanding and perspectives. Literature of the 20th and 21st century, stress on modern world concepts that remain apt to the present world

situations. Since of late, authors like D. H. Lawrence (in his *Sons and Lovers*), Agatha Christie (in her *A Daughter's a Daughter*) and a few other writers have written so profusely on the importance of relationships, meaning of relationships, value of relationships, the power of relationships, and so on, trying to help us understand through the experience of others.

In this paper, I tend to focus on to what extent things have changed from the old to the new expressed in the novel through the characterization of the



feminine personalities, the struggles and turmoil they undergo by their self-accumulated notions that they think to be right according to their own perspective. This paper also is an attempt that explores a discussion on the era, key notes on the author, an analysis on the novel and an overview on the characters, which help us understand the approach the author gives towards her work and further deals with the thematic structure of the novel that shows us the depth of what is expressed through each character that forms the novel or content in the novel. These themes run throughout, it also addresses the issues in the novel that help us relate to the modern world turmoil.

It also deals with the impact a mother and daughter have on one another, and the approach made by Dr. Gellman in her psychoanalytical study on the relationship. The study also deals with concepts that help in understanding the relationship, and the bond that connects them.

The last part of the paper speaks on the relationship of the mother and daughter in terms of the modern twenty first century world in regard to the novel, and also deals with the thinking patterns that suggest this element in this paper.

1. An overview on the Era and key notes on the author.

The 20th century in English literature can be easily classified into two main movements or two main streams, one

being the modernist movement and the second being the post-modernist movement. The first half of the 20th century was a turbulent and transformative period for both American and British culture; it was the First World War that resulted in an unfathomable loss of life. It was at this time, women and men began to define themselves in very different ways, and one of the tools they used to redefine themselves was literature. The novels, short stories, and poetry of the early 20th century critiqued existing forms of identity, suggested new alternative forms, and provided readers with a space in which to reflect on the ways in which they might transform themselves and their surroundings. The era explores American and British literature that took roots during the first half of the 20th century, and considers the continuing relevance of these texts to our contemporary situation.

Literary modernism or simply put as modernist literature has its origins in the late 19th and early 20th centuries mainly in Europe and North America and is characterized by a self-conscious break with traditional ways of writing poetry and prose fiction. Modernists experimented with literary forms and expression, adhering to Ezra Pound's maxim "Make it new." This literary moment was driven by a conscious desire to overturn traditional modes of representation and express the new sensibilities of their time. The horrors of the First World War saw the



prevailing assumptions about the society reassessed, and modernist writers were influenced by thinkers as Karl Marx, Sigmund Freud, amongst others, who raised questions about the rationality of the human mind.

This era was also called as the ***'Golden Age of Detective Fiction'***. It was also the time where noble writers were given honorific titles suggesting ***'dame'*** and ***'sir'*** and recognized for their work rendering to the growth of literature. Agatha Christie was one among these writers, who wrote crime novels, short stories and play; and is best remembered for her 80 detective novels and her successful west end theater plays. She rightfully earned the titles ***'Queen of Crime'*** and ***'Queen of Mystery'*** by the publication of 66 detective novels, 150 short stories, and plays added to her collection. She was one among the famous novelists, short story writers, playwrights and poets. Her works commonly belonged to the genres murder mystery, thriller, crime fiction, detective novels and romances, one of her novels turned out to be a tragedy ***"A Daughter's a Daughter"*** which is the area of this comparative study of the modern day relationships of a mother and a daughter.

She wrote under the pseudonym of Mary Westmacott which was widely appreciated among all her readers. She has been portrayed on a number of occasions in film and television. Several biographical programs have been made such as BBC television's Agatha Christie: A Life in Pictures (2004; in

which she was portrayed by Olivia Williams, Anna Massey, and Bonnie Wright, at different stages in her life), and in Season 3, Episode 1 of ITV Perspectives: "The Mystery of Agatha Christie" (2013), hosted by David Suchet, who plays Hercule Poirot on television. She has also been portrayed fictionally. She sold billions of copies of her work and was also a noted playwright and romance author. Agatha Christie was made a dame in 1971, and made her last appearance for the opening night of the play version of Murder on the Orient Express. This shows how popular Agatha Christie was in her life, but she is not with us today, she went to her heavenly abode on the 12th of January 1976. She is widely read today and famous for all her work.

An overview of Novel.

Been set in the early 20th century, the novel highlights the relationship between a widowed mother (Ann Prentice) and a young daughter (Sarah), how they love each other but come in the way of those they love, interspersed by the wisdom thrown in by a family friend (Dame Laura Whitstable) and a family servant (Edith). It also gives a feel of how the most happening city of that time, London, used to be, how the people specially the elite ones lived and behaved.

The pace is slow, the descriptions elaborate, mannerisms and expressions explicit, language floral and the air exuberant. It is a story of a widowed mother who has a grown up daughter; the daughter is away for a vacation, in



this gap of time the mother decides to live her life again and meets up with a widower (Richard Cauldfield) and falls in love with him and decides to marry him, but obviously concerned about how her daughter would react to the news but inherently believing that she would be happy for her. Ann goes to seek advice from Laura Whitstable and comes to this conclusion that life has to move on and it doesn't stop for anyone. It is here that we come to know that Ann is a middle aged woman having a daughter aged 19.

But the daughter just cannot stand the man in her mother's life and then decides to give up the man she has fallen for just to make her daughter happy. Richard and Sarah have a talk and Sarah emphasizes the fact that she doesn't like him. Both of their views seem to be completely different and after the talk they have had, Richard comes forward and tells Ann ***"Your daughter has made up her mind not to like me."*** This brings to the end of the first part of the novel.

The mother considering the fact that she has sacrificed everything for the sake of her daughter goes on a rampage, she becomes someone who she is not, parties every night and makes so many friends that she has no time left for herself or her daughter. Laura Whitstable pictures in as a very noble lady who keeps on advising the mother and daughter in the critical time of their lives always being a source of support for the both of them.

There is a reference to the Victorian era's jewelry and the reference to the thought of the Victorian era. Sarah and Laura have a conversation under the request of Ann, and here Sarah acknowledges the fact that her mother Ann has more boyfriends than that of Sarah's as she states: ***"She's got far more boyfriends than I have, Laura, and she's seldom home before dawn"***. It is here that Lawrence Steene is introduced and also a revelation that Laura Whitstable is Sarah's godmother while Sarah affirms this by saying "This is Lawrence Steene. My godmother, Dame Laura Whitstable"

It is now where things begin to change. Sarah is seen sitting on the armchair literally weeping after noticing the fact that Ann is no longer the same and she has changed a lot, Edith, noticing this goes to Sarah and consoles her, but Sarah speaks her heart out to Edith crying and crying they sat near the gramophone drew the record close –the deep melancholy voice singing once more- ***"Sometimes I feel like a motherless child-a long way from home..."*** It is here that Sarah discussing her marriage with Lawrence Steene as she herself says:

"I'm going to be married Edith. Isn't it fun? I'm going to marry Mr. Steene. He's rolling in money and he's madly attractive. Aren't I a lucky girl?" This brings to the end of the second book.

The daughter here is seen that she has made a choice for her life, she marries a man (Lawrence Steene) for his money the mother just tells her that one has to



make their choice of life by saying ***“Do whatever you want, it is you who makes the decision.”*** This was probably the wrong choice Sarah has made and it is learnt that she has made the wrong choice in marrying Lawrence Steene, and also learns that he has married several times and left his previous wives. Ann goes to advise Sarah that Lawrence is not the one for her but Ann’s advice was not taken seriously as it had come out in the papers that day that he had a case on him about a young woman called Sheila Vaughan, who was a drug addict and this, was the second time that he was in court. Towards the end both of them end up being unhappy. In a moment of realization, they realize that they have wanted each other to be unhappy while pretending the other way round. They realize that things go way beyond the expected. This realization makes Sarah realize that Lawrence was not the one for her, she leaves him and moves to live her life happily with her best friend Gerry, there is an exchange of sorry and tears and also a realization that no one is happy, sacrifice makes things no better but worse.

Sarah’s thoughts even though are of the 20th century her attitude towards her mother’s remarriage actually made things change. Ann’s sacrifice was never noticed by Sarah but instead showed disgust towards this element of life that everyone has to move on in life. Ann herself asks ***“I gave up my whole life, my one chance of happiness, for Sarah’s sake”*** she admits ***“I loved Richard, but I***

loved Sarah more.” But how much sacrifice can they make? They have gone to the extent of finding faults with each other that they do not understand but realize it only towards the end that they were just trying to show each other that how much they can sacrifice for each other. In the name of rationality are we losing our sensitivity?

2. A view on the characters.

In every novel or work of art it is necessary that there be characters to represent things that are attributed to a person in poetry for example the metaphysical poets compared two dissimilar things or objects to that of a person, not only the metaphysical poets but also other poets involve the element of characterization in their literary aspect of their art work, similarly in genres like fiction, science fiction, non-fiction and drama, characterization plays a very important and vital role in the context of the text, to help the reader connect to the story.

Agatha Christie aka Mary Westmacott beautifully portrays the characters in a very delicate way, showing the world that people live in certain conditions that still highlight the very concept of relationship and proves to be a remarkable example to show that relationships mean a lot no matter if people live in the old or the new, relationship means something and also shows us an example through her novel that life moves on it is never stagnant no matter how much ever we wish life to remain still. Christie has successfully embarked the concept of sacrifice, love,



greed, jealousy, wisdom and understanding, to grant the readers a higher level of understanding of the modern world.

Ann Prentice, portrayed a widow, a lady of understanding who is very considerate towards others and has this tendency to sacrifice for others happiness, especially sacrifice for happiness of her daughter, she even went to that extent of making the decision of leaving the man she loved for her daughter. She is also seen as a person who wants to move on instead of staying in sorrow.

Sarah, portrayed the daughter of Ann is of the modern thinking of the 20th century, a joyful girl known to be always swaying in and out and having a lot of colorful thoughts of life. She is also shown to be of a dominative young girl who dominates over the house where even the change of furniture must be done taking her consent. She is also portrayed a girl turned woman making a wrong choice that leads her from something to nothing.

Edith, a middle aged woman, working a maid in the household of Prentice. She is a lady who cooks and does all the work; at the same time she is portrayed to be a lady who at times advises the mother and the daughter, who also comforts them when they are sad.

Dame Laura Whitstable portrayed to a good friend of the Prentice family, a noble lady who is very respected by all and has a very close connection with Ann and Sarah. She is very well organized and very concerned on what

she intakes as food and drinks she drinks. She is also seen advising the mother and daughter at the times when there is a pell-mell in their relationship. Later in the novel it is revealed that she is the godmother of Sarah, as Sarah introduces her to Lawrence Steene (the one Sarah marries for the greed of money) her first husband.

Gerry Lloyd, a young man who is portrayed to be a very good friend of Sarah, who joins Sarah in rejecting Richard Cauldfield (the one whom Ann was seeing to be a perfect pair for herself) and calls him a cauliflower. He also advises Sarah at times and helps her to move away from Lawrence Steene, on noticing that Lawrence was a wrong choice.

Richard Cauldfield, a middle aged man who falls in love with Ann initially but breakup in due course as Sarah is just unable to see her mother settle for life with him. He is also a very considerate man who considers the Ann's love for him as well as her love for her daughter. Even though Ann and Richard break up, Richard has that courtesy to take Ann to be a best friend for life.

Lawrence Steene, portrayed a man who is very rich and has married many women and induced them to drugs and also shown that he has a studio where he works and only knows to use innocent women for his selfish needs and desires. He is also portrayed to be having a case against him.

Patrick Prentice, the husband of Ann who dies and who is remembered by Ann as a person whom she had loved



but fate separated them through death. Ann feels the emptiness in her life and plans to move on with Richard Cauldfield until Sarah comes and ends everything.

Themes in the novel that helps the comparative study.

As we know that the novel is of a mother and daughter who actually mean the world to each other, let us consider the themes displayed in this novel that show us details that would help us introspect from within.

1. The theme of love:

Love is the most essential element in every relationship to live strong in life. Such is the love between the widowed mother Ann and her young daughter Sarah; it is this love that makes the mother sacrifice for her daughter, she even goes to the extent of sacrificing the love of her life that she had just met, for the happiness of her daughter. The daughter loves her mother, but she is not ready to see her mother with another man, she goes forward to tell the mother that she is not ready to get into this. Agatha Christie voices this out through Ann's thinking "Children waited on parents, or parents waited on children- it made no difference to the underlying vital relationship of person to person" in her novel.

Love between Ann and Richard is another portrayal that Agatha Christie aka Mary Westmacott shows in her novel. Ann and Richard are seen liking each other and plan to get married as soon as Sarah had returned home. But

unfortunately Richard and Sarah do not get along, Sarah induces the feeling into her mother that she had to choose between love of Ann and Sarah and the love of Richard and Ann. Things change but it gives a slow phase until everything becomes normal, both realize that everything has gone topsy-turvy.

2. Theme of Resentment and Jealousy.

According to the modern world thinking, too much of love becomes poison to that of the understanding one has towards the other. The same is shown in the novel where there is love and readiness to do anything for the sake of the other but it all ends in the fate of ending everything in a disharmonious manner, resentment and jealousy corrode their relationship as each seek relief in different directions. This makes an impact on the relationship, and this leads to fights and make things complicated. It is after this that things get resolved and a realization that all this time things moved hazardously and one could not comprehend with the feeling of the other.

This made things uneasy; decisions made during this phase brought the disaster of resentment and jealousy. Sarah was looked after by her mother Ann with so much of care and concern, everything mattered to Ann, Sarah's feelings, her likes and dislikes, her happiness what all and what not. But very little did Sarah think of her mother, Ann suffered a lot inwardly, the



loss of her husband Patrick made Ann a widow, and it was she who took care of Sarah. Now when the time had come for Ann to move on Sarah brings a halt in the idea of her mother moving on to live a life of happiness that had come knocking at her door in the form of Richard Cauldfield. This makes the reader think, if it is wrong to move on, when life offers you a chance to think ahead and move towards change. Was it wrong for Ann to think of moving on after the long pause that her life offered her?

3. Theme of marriage

Marriage is the most widely discussed theme that first connects, brings forth new life and death comes to change the stability of things. Just after long years of this inward struggle of sorrow, a ray of hope comes to Ann through the persona of Richard Cauldfield, but here came Sarah who felt insecure with the fact that her mother would not love her daughter any more than she loved Richard. Sarah through this develops resentment and jealousy that drops the idea of remarriage like a hot potato. This is one aspect of the novel, on the other side Sarah is seen making a choice to live with a man for the property he owns and the bank balance he has.

Sarah now realizes that her life is ruined with her own thinking. She married a criminal and got carried away by the way Lawrence showed himself to her. Very little did she know that life changed and things became unreasonably weird when she realizes that her mother was right in telling her

to think well before she made a decision that resulted in this change. But after everything was over she finally succeeded in leaving Lawrence and moving on with Gerry Lloyd for a better life.

These are the main themes in the novel that provokes us to think what exactly is a relationship in the eyes of the modern generation? Who is an ideal mother? What is the role of a mother in a family? How much does a mother need to sacrifice? These are a few questions that come into the discussion of the subject. It makes us think on the fact that in the name of modernity we tend to lose the meaning of relationships. We tend to understand things that do not really exist. Agatha Christie brings out these things in this novel. She brings out feminist idea of life that a woman sacrifices so much and is never recognized for what so ever she does. This is proven by her portrayal of women as protagonists of her novel *A Daughter's a Daughter*. The idea of love turned into a tragic end where everything ended with a note that things are not the same and life has moved so fast that Ann finds herself in the same position where she stood lonely in the beginning of the novel.

The impact a mother and daughter have on one another seems to be timeless.

Relationship between a mother and daughter has seemed to be one of the most discussed relationships in the world today. A recent study carried forward by Dr. Gellman (A



psychoanalyst, psychotherapist) found that girls are either working to be just like their mother or at other times wanting to be nothing like her. Why do mothers often say it is so much easier raising a son? The impact a mother and daughter have on one another seems to be timeless. No matter how old each one is, they seem to trigger enormous amounts of emotional energy. Both are activated by female hormones, estrogen and progesterone. A little girl is nurtured by these hormones, and a blueprint is established for the rest of her life. A girl's brain seems to be wired differently from her brothers and her father; girls seem to thrive from staying within her relationship.

Self-esteem seems to be enhanced by feeling as though a girl is a part of a relationship.

Dr. Gellman conducts an experiment on the eve of Mother's Day to find out what are some of the basic tenets of this extraordinarily powerful connection and how one could work through difficult moments and set the stage for relationships that are mutually validating.

She refers to the women as stone setter, and posits that people yearn for connections with others, and there is something about this mother and daughter relationship, that connection and disconnection becomes a central principle.

Gilligan, Brown, and Rogers, in 1990, have found that an inner sense of connection to others is a central organizing feature in women's

development. Five very beneficial components to mutually empowering relationships according to these scholars are:

1. An increased sense of well-being that comes with feeling connected to others
2. Motivation and ability to act right in the relationship
3. An increased knowledge about oneself and the other person and increased sense of Self-worth
4. A desire for more connection.
5. Empathy and Anger.

The recognition of the value of anger is very important in this relationship in order to clarify sources of pain and doing something about it before things change from bad to worse. Further in her study she questions the following:

"What is an ideal mother? Is it devoid of anger and aggressiveness? Does a mother need to be selfless with her daughter?"

The one who is selfless is the one who needs nothing, and lives only for giving all she can give to the others. She says that it's extremely important to integrate anger with love and these feelings between mothers and daughters in order to lead to a daughter's own independence. Anger is often use as a defense to mothers rather than as an emotional response. This not only brings closeness but also gives an emotional touch to one and other.

Questions she asked during a survey were as follows:

What do I feel about the relationship between me and my mother?



What do I want or expect from her?

What is the impact do I have on my mother?

What is the impact I have on my daughter?

What do I need to do to move this relationship in the direction of growth for both of us? What is happening in the relationship right now?

What does the relationship need?

It is very important to understand cultural influences on parenting of mothers and daughters. The attachment of relationship learned early in life has a profound and lasting influence on the mother and daughter. This relationship of a mother and a daughter is a very unique relationship that proves to be powerful. A mother seems to have a desire for another person when she becomes a widow in the view that there would be no problem in parenting and the other reason that she just wants to continue her life, another relationship, it becomes important that the mother has to take the consent of her children if not the children sometimes think the relationship is to become much more murky, the very thought that comes in the mind of her children is that their mother is accepting her own aims as separate from her child as shown in the novel by Agatha Christie aka Mary Westmacott *A Daughter's a Daughter*. More than anything it becomes more distinct with daughter than a son, it is here that understanding is needed so that things can be clear and the desire of both, the mother and the daughter

can be understood and a proper understanding can be drawn upon so that proper decision can be made.

We know that mothering transcends gender, but there seems to be a bond that ties a mother to her children especially daughters, where they would question with their boundaries. There is a distinction in not having that same thought process. Mothers want to keep their children safe, protect them, and train them. The lines become much more blurry of women who are mothers who have independent aims and desires from their children. More women still do a disproportionate amount of work of caring for their children.

The next point she stresses is on the boundaries of her career, where the difference between the relationship between and mother and daughter lies in the career each choose to pursue, a mother with a career and the mother that does not have a career is completely different from the expectation of the child. How does the daughter view the mother? There still seems to be a vast gap between the mothers who stay at home and mothers who work outside the home. There comes a need for more understanding and the increase of the stress levels that may at times trigger a small crack between the mother and the daughter and it needs to be noticed before the small crack becomes big.

The Modern World Mother and Daughter Relationship of the 21st Century in regard to the novel.



Agatha Christie has positively shown the world through her feminist writing and portrayal of women as protagonists empowers the status that women really mean something in the society. She shows that women are the ones to sacrifice for the betterment of their families and their children. The main characters of the novel, Ann and Sarah are portrayed to exhibit the nature of women, the attitude of women, the life of a woman after she gets bound in the web of relationships, the way women are actually treated in a society like ours, are a few elements Christie tries to outpour in this novel through the characters of Ann and Sarah.

Ann being a middle aged woman never thinks of anything except of her daughter Sarah all the time she ever does something, her thoughts automatically go on "what may Sarah feel?" and "what she might think?" Ann never thinks of her life except for the happiness of her daughter Sarah. In the beginning of the novel Christie reveals that Ann is lonely and feels sad about it, she has shown that Ann wants to move on in her life she wants to experience love again, this she expresses through the meeting of Richard Cauldfield, who also is a middle aged man who have been seeing each other for a while and decide to get married as they find that compatibility in each other. All that was stopping them was Sarah; the presence of Sarah made the difference in the situations that happen to arise. It was Sarah who did not want to see her mother marry another man, just

because she thought that she would lose her importance.

So in other words, it was Sarah who was the cause for Ann and Richard never to carry forward their relationship. Ann had to choose between Sarah and Richard, when we compare this to what we see in our modern world relationships many women face this problem, even though they desire to move on in life they have to choose between their happiness and the happiness of their family. They think and ponder on the choices they make as it affects the life of everyone connected to her.

Ann, later after she had decided to leave Richard, she goes in for enjoyment and making friends so that her sorrows may fade and give a new and a better view on life. Ann is seen enjoying but still with thoughts of her past that haunt her to that extent that she goes for parties every other day and is busy making friends. Sarah now realizes that Ann is never at home and is always seen partying and making new friends, she feels bad and makes a statement that Ann has more friends than hers. Christie shows Sarah to be a girl who is always busy in her own life and a girl who is always seen enjoying with her friends, now speaks of her mother enjoying all the time with her newly made friends. What a situation? Ann being a woman who sacrificed her happiness for the sake of her daughter is now seen mocked by her daughter just for making friends and moving out with them



Another aspect shown in this novel is the concept of marriage and family life. Ann through marriage with Patrick, begets Sarah, but loses Patrick and has to look after Sarah all alone, no one shouldered the responsibility of Ann when Ann was parenting her daughter, her sacrifice was at this time was considered a duty. But now as time passed by Ann just thinks that it is high time that she makes plans to move ahead in life, she takes the advice of her closest friend Laura, who advises her to move on in life "life waits for none, sacrificing so much would not help achieve anything but unbearable loneliness." The question Agatha Christie poses to the modern world is, is it wrong for a widow to remarry, when she has found someone as her own self a widower? We live in a modern world that speaks on equality, rights and freedom moreover we say we are being modern in every aspect, then why do we think so adversely on the ideas of a widow remarrying and moving ahead in her life? Doesn't she have her life of her own? Why does she have to wait on someone else to decide for her?

Christie herself says: "A mother's love for her child is like nothing else in the world. It knows no law, no pity. It dares all things and crushes down remorselessly all that stands in its path" this shows that Christie loved doing her part in her family as a mother, and in her career as an author. A few critics say that this novel has attribution of Christie's daughter Rosalind Hicks, but it is not very clear

and no evidential proof to support this fact. It is also said that she would have thought of the proverbial statement that states "A son is a son, until he gets a wife; a daughter is a daughter till the end of her life." It is very much evident that the fact that a woman is the one who ultimately ends up in sacrificing herself from the time she is born as a woman

It is a mother who bears the child in her womb for 9 whole months, works for the betterment of her family and at the same time rocks the cradle of her child; she gives her life for the selfless service of her loved ones by providing for the nourishment of her children, husband and family.

She never thinks for a while that she is also a human, she does all this for the fact that she loves her family so much that she is ready to do anything for the love of her mother.

A mother's relationship with her daughter is a mirror to the world. It is very noticeable that most of the daughters try to imitate their mothers in all they do. In the other look around there are some daughters who hate their mothers for no rhyme or reason they just seem to have a problem with their mothers.

A mother cares for her daughter; she tries to provide the best so that her daughter receives the best. A mother never thinks in other ways for the daughter to be dammed, but she sees that she gets the best education in the best institution; she tries to see that her daughter gets into the best household as



a wife, daughter-in-law, and other relationships that come in with marriage. This same mother becomes a grandmother and shows the same love towards her grandchildren.

If this is one type of thinking there is another thinking which suggests that the word is not the same, relationships have become something else today. There are a few daughters who just cannot tolerate their mothers; so after their marriage these daughters change to that extent of tutoring up their children against their grandmother, and thus make it difficult for them to do anything in life.

The other aspect of life is that when there is word for marriage a few girls tend to see in the details available if the mother of the husband to be is alive, if so at times a few girls reject the match. And a few girls after their marriage send their mother-in-law to the old age homes.

A question comes in our mind, is this modernity? Is this the way we practice our equality, and show our love to the lady who has always been sacrificing? The argument is open for us to introspect and think.

Conclusion

We indeed live in the modern world where at times things to get entangled and becomes very difficult to understand these things that happen in our lives. All that is needed are huge leaps of faith, hope, patience, humility, trust, understanding and love. The main element that ties all relationships

together is tolerance and love for one another. The novel portrays this image of love, sacrifice, hope and tolerance on one side and on the other hand it portrays resentment jealousy and greed for money and love. Very little did Sarah know things would change drastically; Ann kept on sacrificing till the end thinking about her daughter Sarah all the time.

The comparative study with regard to the modern world shows us the changing trend of the mind as well as the century in which people live and the in. The goal I achieved by this study is that, I have to a certain extent developed immeasurable respect to all women especially who do so much for their families but their work goes unacknowledged.

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°ÆÄ^aÄg vEÄ aÄ°ÄPÄ^aiz° °⁻EiU^¼ ,EÄzAiÄð^aEÄ° a tð,ÄvÄ. "Ä«g °ÄqÄU^¼ Sⁱ°vi ¥AiÄtP! PÄgt^aÄz FPAiÄ °ÆÄgÄI °ÄqÄU^¼ SUI °Ä¼ÄwzÄE. AiÄÄzP! PÄgtgÄz^agÄ J® ¥ÄgÄµgÄ DzgÆ E° ¥ÄgÄµgÄ DzgÆ aÄ»¼AiÄEÄ PÄgt aiÄrgÄ^aizÄ ,µ^aÄVz. aÄEÄz ¥¹z! aÄvEPÄg PEÆÄiÄiÄ, i '1Ä' ¥gÄ^a®Ä° aÄU¼ÄV vÄzU «zÄAiÄ¼ÄVg"ÄPÄ, ¥wÄiÄV UAqµU «zÄAiÄU¼ÄVg"ÄPÄ °ÄUÆ «z^aÄiÄzÄU ¥ÄvjU «zÄAiÄ¼ÄVg"ÄPÄ JAZÄ °Ä½zÄE. aÄ°ÄEi vveÄ° ,ÄPÄnÄ, iE 1ÄAiÄgEÄ PÄjvÄV ¥²¼zÄU " EÄ UÄEjAiÄEÄ vU-Äj' °tÄ K°zÄ¼ÄzÄ °Ä½zÆqEÄiÄÄ EÄEÄ Dzg° fVzÄ ©qÄ^a" JAZÄ °Ä¼ÄVÄE. 1Ä SÄC^aÄv¼ÄUÄ^aizP! SÄiÄ,Ä^aizÄ aÄ°Ä C¥gÄz JAZÄ d^aÄðEi z^aÄðUÄGÄ aiÄnðEi °Ä½zÄg. PEi¥ÆiÄiÄ, i ,ÄPn, i °ÄUÆ aiÄnðEi E^ag⁻Ä ¥¹z! vveÄ°U¼ÄVzlgÆ aÄ»¼AiÄg SUI C^ajVgÄ zÄÄguÄ dDPÆ CAVP ¥qÄ^aAwz.

1. ±Ä, EÜ^¼° ²a ±guAiÄgÄ -qÄ.azÄEÄz^aÄEwð

"eÄE^a ¥ÄgÄµg UÆg^aÄEÄ° °a¹zlg, CeÄE^a 1ÄAiÄg ,EÄzAiÄð^aEÄ° °a,Ä^aizÄ JAZÄ aÄ°UÄz °Ä¼ÄVz. aÄz ,Ä¼ÄzgÆ UÄz ,Ä¼ÄUzÄ JAŠ aiÄwU EzÄ dDPÆ aÄwjP^aÄVz. (F °Ä½PU¼Æ) ,v^açÄ Cx^aÄ GvÄPAiÄÄ w½AiÄzÄ.DzgÆ E^aU¼Ä ,ÄPµÄ dP!µ^aÄV PÄt⁻ÄUÄvzAiÄzÄ ,µ¥r,Ävz. F J⁻Ä °Ä½PU¼ÆÄ C^a-ÆÄQ¹zÄU ,ÆP^aÄz ,ÄE^aiÄE °tU 1Q®^aÄzÄ w½zÄ SgÄvz. aÄ»¼AiÄg EAx 1wÄiÄ° MAzÄ CÄÆ®^aÄz Sz⁻Ä^au PAqzÄ PEÄðIPz ±gtg PÄ®z°. S, ^atE^ag ÄÄvz° £qz F PÄAwAiÄ° ¥ÄgÄµEµÄ aÄ»¼UÆ aÄ°vz ,ÄE ®©¹vµÄ C®; C^a¼Ä DU £qz ,ÄU PÄAwAiÄ° aÄÄAZÆtU SAz¼Ä, S, ^aÄC ±gtgÄ zÄÄðQAv®Æ aÄÄRiÄV ,ÄaiÄfP Sz⁻Ä^auAiÄ D±AiÄ^aEÄ ¥Rg^aÄVIAPEAqÄ SAz^agÄ. aÄ»¼AiÄEÄ EAv° zÄgÄt 1wU v½z ,aiÄd^aEÄ vgÄmU vUZÄPEAqÄ zÆPÄggÄ °tUÆ ¥ÄgÄµU ,aiÄE^aÄz ,ÄE aiÄE^aEÄ°



P°, @Ä °ÆÄgÄrgÄ. ±v^aiÄEU½Az C, ±jUÆ, C, ±½ÄZ, Cz±½ÄZ aÄ»¼AiÄjU, Ä^aiÄfP
 °ÁUÄ zÄ«ÄðP PÄvz° °¼AiÄ@Ä C^aPÄ± P°¹PÆlgÄ. EzÄ ±dPÆ C, Ä^aiÄÆ, AUw.
 ±gtjU ¹ÄAiÄg SUI CviAv UËg^a«vÄ. CµÄ C@ C^ag, aÄxiðz°AiÄÆ CµÄ ÄA@P EvÄ.
 °ÁUÄV vÄ^ai Äq¹z Z¼Ä^a½AiÄ° aÄ»¼AiÄjU ¥Ä⁻Æ¼@Ä C^agä P°¹zgÄ. EzjAz aÄ»¼
 vÆ, aÄ, i, AQÄtðvU¼ÆÄ ±ÄVPÆAqÄ, aÄPaÄV aiÄvÄq@Ä, ¥w°«°, @Ä °ÁUÆ ¥², @Ä
 , ÄziÄÄ-ÄvÄ.

2. qÄ.ZEIPÆ -ÄRE

²a±gt, ²a±guAiÄg Ew°Ä, , £aÄ £Är£ eÄUiv Ew°Ä, aÄVz. C^ag SzÄQE
 aiÄzjAiÄ ²Ä@, b@^aAwPaiiÄVz. ,v, ±Äz, aÄt°z °¼Ä DVz. EzÄ CA@Æ
 avðaiÄEzajU °«µwÆajU ÄqÄÄrAiÄ° ÄqzÄ vÆÄjz ZivÆ dAU^aÄa, Ävz. DzAiÄ
 , ÄgÄµ, ÄÄÄ±gÆÆqÄ CAQvÄg, Ä^aÄz Äq¹ «Äg°z£ aÄ°Ä °¼ÄPqÄ 'D ZivÆ
 dAU^aÄP, £ÄÄ£ £ÄÄ£' JAZAv £ÄÄ ±gt, ±guAiÄg °¼Ä PqÄ £ÄÄ £ÄÄ
 ²Ä@^aÄÄC, ð, °ÄPÄ. F @QÆ @, AiÄ° qÄ. ZEIP C^ag '±Ä, £ÄP ²a±guAiÄgÄ'
 Ew°Ä, z° Gzi«°, z° Gzi«¹ Sz S, a ²a±guAiÄgÄ, S, a PÄ°ÄE ²a±guAiÄgÄ,
 S, aÇÄvg ²a±guAiÄgÄ JAZÄ «AUqEUÆAqÄ ÄÄZÄA@z aÄAU¼Pg ²a ±guAiÄgÄV,
 ²aÄ±AiÄV, °ÄÄ±AiÄV PÄt¹PÆ¼ÄvÄg.

EÆÆ UÆU^aiÄÄx ²a±guAiÄ SUI ±Ä, £ÄÄ-ÄRU¼Ä PÄt °ÄPAZÄU °ÄgÄ±g
 PxÄÄt , ÄvgvÄPgZAv , Ä»v Pw °ÁUÆ zÆ¥z PÄAiÄPPI °, gÄVZÄ dÆ¥zg°
 gÆRUÆArzi DPAiÄ SUI °Q °Ä½gÄÄzÄ ¥AiÄÄAiÄ , ÄZ£ JAZÄ JÄS°ÄZÄ.
 zÆ¥Ä½duAiÄ° Dvi , ÄPÄvÄgU½¹PÆAq DP °tvÆP DzÄwP , ÄZEU °ÄZPÄ® JAZÄ
 vÆÄjzÄ¼ JASÄZÄ. qÄ.ZEIP C^ag aAv£AiÄVz. C^a¼ ¥ÄIÆgÄ PÄg¼z C^a@ÆgÄ
 JASÄZÄ -ÄRQAiÄ aÄgÄziÄV, UÆU^a PÆiqz^a¼Ä EAr vÄ@ÆPÄ ¥j, gz^a¼Ä, D²Ädz°
 UÄäð °Sz° UÄ¼Ä£ aÄÄZ , Ä±ÄZ£AiÄ ¥w¥ÄZ£ DVz.

DP S, a ¥Æ^aðz ±gt JASÄZÄÄ vÄÄ ±gt , ÄwAiÄÆ aÄ»¼AiÄjU DzÄv
 ±ÄrvÄ JAZÄ ÄÄr@ZÄg. DzÄvz °¼ÄtUÄiÄ° CA@Æ ±gtgÄ aÄ°vz , ÄÄÄÄÄ
 ±Äð»¹zgÄ JÄCzÄg. DzÄjit , ÄZ°zÄ zÄÄÄ@AiÄ, aÄOU¼Ä °Æu °ÆvÄ , aiÄd , Äa,
 zÄÄ ¥, Ägz°AiÄÆ ¥Ä⁻ÆÄrzi SUI °Ä½zÄg. ÄÄPgÄV °Æu °ÆvÄ aÄt° aiÄqÄwzi
 ±gt aÄ»¼AiÄjzÄg JASÄZP DzÄgU¼ÄÄ ±Ä, EU½Az °Q °Ä½zÄg.

zÄÄðz °¼ÄQ° UÄgÄ DzÄAiÄðg , Ä£ S°Ä zÄqz±¹z. zÄÄðPÄZU¼±¹z
 zÄÄÄ@AiÄ aÄOU¼Ä , aÄ, °Æu DzÄAiÄðgÄÄ C^a@A@¹vÄ. MAZÄ PqU , aiÄd@Az UËg^a
 GvÆ ¥qAiÄÄÄzÄ EÆÆÄZÄ PqU , aiÄd , Äa, zÄÄ ¥, Äg PÆUÆ¼ÄÄzÄ zÄÄ ¥Æe
 «zÄiÄÄ, PÄ ÄÄiÄz F PÄv PÄZU¼° v¥ÄÄZ£gÄ «zÄiyð aÄtU¼Ä ÄÄPgÄV
 SzÄP °ÄPÄVvÄ. DzÄg »ÄgÄVzÄg aÄ@Az Nr, °ÄPAZÄ CÄP ±Ä, EU¼° w½, Ävz. EAx
 dÄÄÄÄÄÄÄ ¥ÄgÄµgÄ °ÄgÄwzi PÄ@z° ¹ÄAiÄjUÆ vP aÄÄnU DU«ÄP zÄÄðu¼Ä
 C^aPÄ± ±ÄrZÄZÄ °ÄgWÄAiÄ zÄÄðu¼Ä Ew°Ä, z° aÄ°vz CA±Ä±¹z.



“Á@í áÁvÁ ŠZÁPÁ:

UAXU⁴° 1PÁ^a UÆU^aAiÄ fÄ^aEz «agzAv FPAiÄ ,¼ PÄg¼z C^a@EgÄ.C^a¼ vAz vÄ-ÄU⁴Ä 2^a“PgÄ.zÆyz UÆU^a “Á@íZ°AiÄÄ 2^a“QAIÄEÄÜ aÄEÜEr¹PEAqÄ aÄgÄÜi vÄ½z¼Ä. EzÄ ¥j¹WAIÄ MvqÇAZÄU°, aÄvÆSg Š@^aAvÇAZÄU°, zE PÆPU⁴ aÄE°ÇAZÄU° ŠAZ C“^a aÄgÄÜi^a@. ‘F±gEÄ U°ÇAZ ŠAZ ,°d aÄgÄÜi, “Á@íÇAZ-Ä 2^a“PÆ° ògv¼ÄVZ! UÆU^aU ¥Eg^aAiÄ,¼AZÄU aÄZÄ^a aÄq@Ä aÄz@Ä vAz, vÄ-Ä ¥AiÄW¹zgÄ.DU C^a¼Ä aÄE-ÄAZ NrŠAZÄ 2^aÄ@AiÄZ° CqV PÄ½v¼Av. aÄU⁴ aÄEÄZ^aÄ@P, AÇ¹z vAz vÄ-Ä C^a¼EÄÜ -EQP fÄ^aE¹½AiÄZ C^a¼ EZiAiÄAv ŠZP@Ä @qÄvÄg. zÆyz UÆU^a, zÆyz UÆU^a vEi zÄ^a “Q-ÄAZ 2^aEÄÜ °Ä°¹PEAq ¥,AU^aEÄÜ EÄ^a Š°¼ GvÄ°ÇAZ PÄtŠ°ÄZÄVZ. zÆyz UÆU^aAiÄÄ “Á@íZ fÄ^aE C^ag vAz-vÄ-ÄU⁴Ä vÄ“^a zÄ^aÄPgÄZ PÄgt C^ag aÄEÄiÄ aÄvÄagt^a MAZÄ CzÄvz PÄAZÇAZ PÆrvÄ. C° ,ZÄ “Q, ¥Æe, ¥Äg,ÄgU½Az PÆrz PÄgt^aÄZjAz vÄ-ÄAiÄ U“¹ðz°gÄÄU-Ä zÆyz UÆU^aAiÄÄ zÄ^a “QAIÄEÄÜ gEr¹PEAqÄ F dUwU dE^avÄ½zjAz zÆyz UÆU^aAiÄE C-EQP aÄi^aEÄ°P M¼UÄUZ -EQP fÄ^aEÄEÄÜ gE¹PEAq¼Ä JASÄzEÄÜ UÄ@,Š°ÄZÄ »ÄU UÆU^a fÄ^aEÄEÄÜ EÄ^a PÄtŠ°ÄZÄVZ.

“ZEUzgu vÄ@v zÆy^aÄÄ” ,EÄvE UÆU^a, «Äg±^a ±gtgÄ vAz Z¼Ä^a¼AiÄ aÄE@P 1Ä-¥ÄgÄµE- MAZÄ JAZÄ w½^a¼PAiÄ Cj^a CÄP aÄ»¼AiÄjU ±gtAiÄg aÄE@P DVz.F PÄAwPÄj «Äg±^a Z¼Ä^a¼AiÄEÄÜ ,ÄjzjAz PÄAwPÄj ŠZ-Ä^aU⁴Ä »ÄU vÄ° GAmÄZ^a JASÄzEÄÜ CÄP aZEU⁴° a^tð¹zÄg.EzP MAZÄ aÄZjAiÄ GzÄ°guAiÄV EÄ^a zÆyz UÆU^aAiÄEÄÜ PÄtŠ°ÄZÄVZ.

““^a g»v zÆyz UÆU^aAiÄÄ“ÄP 2^a@U zÆy^aEÄÜ @Är PÄ-Ä, ¥z^aEÄÜ 2^a “PjU vÄÄj ±ApE PÄ¥ ¥qz¼Ä JAZÄ 1zEÄEÄ±E °Ä½P. ‘EÄ¹EÄx, FPAiÄ aZEU⁴Ä CAQv. FPAiÄ DgÄ aZEU⁴Ä F^agU G½ZÄ ŠAÇz. ,Ä^aiÄfP vqUÄEÄqU½Az °uAS aÄiÄE¹P C«gÆzÇAZ DZ ŠAZÄ CÄÄ“« E-ÄiÄ° vÄÄ D¹vÄiÄEÄÜ PAQÄPEAq 12EÄiÄ ±vÄiÄEz 2^a±gtAiÄg° °ZÄ ¥Z°vÄÄVgz ±gu JAZg zÆyz UÆU^a.

UÆU^a vEi aZEU⁴° CAQvÄV Š¼Ä^a F ‘EÄ¹EÄx’ JAS ¥zUÄZ D±AiÄðPg^a,Ä^aµÄ CxðU@ðv, ‘EÄ¹. JAZg KEÆ E@ZÄ ŠAiÄ@Ä, ±ÆE, C¹v g»v, @GÄPÄg »ÄU °@^aÄGÄ CxðU¼Ä Š°ÄvÄP EÄvÄvPÄV ,Äj,Ävz. ‘EÄ¹EÄxÆAZg E@ÄZg MqAiÄ ±ÆEz MqAiÄEÄZÄ Cxð,Š°ÄZÄ. «Äg±^a ¥^aÄÄR 1zÄAvz ±ÆE ŠAiÄ@ÄU¼ ¥jP@EÄiÄEÄÜ PAQÄ ‘EÄ¹EÄx, ¥zUÄZ,Äg @GÄPÄgU¼° «²µ ŠAiÄ@ÄU¼Ä ,AAiÄEÄEÄiÄUÄvZÄiÄV ‘±ÆE’ ,A¥ÄZE JAS ¥g,g «gÄZi aÄE@U¼EÄÜ M¼UÄErgÄ^a ¥z ,AAiÄEÄEÄiÄEÄÜ aÄE¹U vgÄvz.

‘±ÆE’ JAS ¥gÄiÄxð^aEÄÜ CfÄtð,Ä^alZÄ fÄ^aEz ¥gÄUÄj JAS «Äg±^ag 1zÄAv. ‘EÄ¹AiÄEÄÜ DVPÆ¼Ä^a UÆU^aAiÄ F CAQvz° °Æg°Æ«Ä C^a¼Ä ±ÆE ¥yU¼ÄVgÄ^alZjAz CjÄUÄvz. UÆU^aAiÄ F CAQvz@Æ °Æg°Æ«Ä C^a¼Ä ±ÆE



$\mathbb{Y} \mathbf{y} \mathbf{U}^{\frac{1}{4}} \mathbf{A} \mathbf{V} \mathbf{G}^{\mathbf{a}} \mathbf{a} \mathbf{z} \mathbf{j} \mathbf{A} \mathbf{z} \mathbf{C} \mathbf{j}^{\mathbf{a}} \mathbf{A} \mathbf{U}^{\mathbf{a}} \mathbf{v} \mathbf{z} . \mathbf{,} \mathbf{\acute{A}} \mathbf{z} \mathbf{A} \mathbf{g} \mathbf{t}^{\mathbf{a}} \mathbf{\acute{A}} \mathbf{V}^{\mathbf{2} \mathbf{a}} \mathbf{+} \mathbf{g} \mathbf{t} \mathbf{A} \mathbf{i} \mathbf{\acute{A}} \mathbf{z} \mathbf{A} \mathbf{z} \mathbf{\acute{A}} \mathbf{z} \mathbf{\acute{A}} \mathbf{A} \mathbf{v} \mathbf{i} \mathbf{f} \mathbf{\acute{A}}^{\mathbf{a}} \mathbf{E} \mathbf{\acute{E}} \mathbf{q}^{\mathbf{1}} \mathbf{z}^{\mathbf{a}} \mathbf{g} \mathbf{\acute{A}} .$
 $\mathbf{U} \mathbf{\acute{E}} \mathbf{U}^{\mathbf{i}} \mathbf{a} \mathbf{\text{''}} \mathbf{E} \mathbf{A} \mathbf{v} \mathbf{\acute{A}} \mathbf{z} \mathbf{\acute{A}} \mathbf{\text{«}} \mathbf{A} \mathbf{i} \mathbf{\acute{A}} \mathbf{A} \mathbf{v}^{\mathbf{a}} \mathbf{i} \mathbf{\acute{A}} \mathbf{E}^{\mathbf{a}} \mathbf{g} \mathbf{\acute{E}} \mathbf{q} \mathbf{E} \mathbf{\text{«}} \mathbf{\acute{A}}^{\mathbf{a}} \mathbf{o}^{\mathbf{a}} \mathbf{E} \mathbf{\acute{A}} \mathbf{\text{»}} \mathbf{g} \mathbf{A} \mathbf{P} \mathbf{j}^{\mathbf{1}} \mathbf{\pm} \mathbf{\acute{E}} \mathbf{E} \mathbf{i} \mathbf{C} \mathbf{A} \mathbf{U} \mathbf{z}^{\mathbf{o}} \mathbf{L} \mathbf{P}^{\mathbf{i}} \mathbf{\acute{A}} \mathbf{U}^{\mathbf{a}} \mathbf{A}$
 $\mathbf{z} \mathbf{\acute{A}} \mathbf{A} \mathbf{i} \mathbf{\acute{A}} \mathbf{V} \mathbf{\acute{A}} \mathbf{\frac{1}{2}} \mathbf{z}^{\mathbf{a} \mathbf{\frac{1}{4}}} \mathbf{\acute{A}} .$

‘ÉÁ¹ÉÁx JAZA CAQv«gǺª UÆUªAǪª DgǺª aZEU¼ª aǪv ⑥¹i«z. »ǺU J¹
±gt-±gtAǪǺª vǺª aǪqǺª PǺAǪPz° ÉA©PAǪÉǺª EǪª D ÉA©PAǪª aǺÆP zǺªgÉǺª
PǺt@Ǻª ǺAǪw,ǺvǺg.vǺª aǪqǺªAv° PǺAǪP aPzǺª EgS°ǺzǺª zÉqzǺª EgS°ǺzǺª CzǺª
±gtgª aÉ¹U GzǺ¹ǺÉv EgzǺª GvǺªǺzAv° PǺAǪPªǺvGǺvz. F jǺwAǪǪv ±gtgǺª
vǺª PǺAǪPz° DzǺvz É¹AǪª J¹ª jǺwAǪª GvǺªǺzAv° CǺvgAU aǪvǺª
S»gAUªǺzAv° ±zǺvAǪÉǺª PǺǺrPÉAqǺª P®,ªÉǺª ǺǺδ»,ǺwzǺª. CǺv° zª±guAǪjU
zÉǺªÉǺª ǺPǺªzǺª aǺÆP vǺª PǺAǪPz°ª ǺU¼ªAUǺv¼ª. EAv° C¹EQP eǺªÉǺª
vÉgzǺª¹EQP eǺªz PqU vǺªª aǺÉ,ª PǺA¢PgªªÉǺUÆ½¹zǺª. ÉǺªª ±gt-±gtAǪǺª
JǺSǺzÉǺª F CzǺǪǺÉz° PǺqǺª PÉArzǺª JǺzǺª vǺU¹ǺqzǺª.

- ❖ $\pm \epsilon \epsilon$, $A \neq \lambda Z \epsilon U \frac{1}{4} \tilde{A}$
- ❖ $\tilde{q}^a \tilde{A} \pm q^p x^A \tilde{a} t$, $\epsilon v \ q v \tilde{A} \tilde{P} \tilde{A} q \tilde{A} U 2$

zÆ¥z UÆU^ía AíÄ PÁAíÄPz aÄ^ov:

Š, a±ggā, aīaēāzā«āđp Z¼a½ aāvā, vi-±āzī PÁAiP zÁ, Ēā°¢AzāMÁzg
 DyđP GēwAiāĒā Pā½ ĒgAiā Pāg¼ gÁdiz Cª@ĒjāZ P-ĀitP SgāVā¼. “1zĒAē±
 vĒ PÁāiz° UĒUīa Pājvā ““ag»v zĒ¥z UĒUīaAiāĀP 2ªāU zĒ¥ª āār PēĀ,
 ¥xªĒā 2ªĀPjU vĒĀj ±ApĒ Pē¥ ¥qz¼i UĒUīaAiā ¥ªĀRª ZĒU¼ D±Aiāz
 āi°vzĀVz JASāzĀVz JASāzĒā Ēāā PĀtSªāzĀVz.

Eoivg S°Ä¥ÄÖÄ ºZEPÁjAiäGAv ºvEÄªÄ DZÁgtU¼ PÄjvÄ U/EÜª vEÜ
 ºZEU¼° Zað¹®AazÄ ºÄÄ-ÆÄIPI PAQÄ SgÄvz. C®z S, ºt£ªgÄUº vEÜ, ºÄPÁºÄE
 ±gt ±guAiäGÄUº U/EÜª vEÜ ºZEU¼°, ij, ºÄªzg ºÄºv PAQÄ SgÄª¢®. CªPÄ±
 SÄzg J-Á ¹ÄÄiäGÆ Cj«ªAz G£wAiÄEÄ, º¢, S-gSÄzP ±gt U/EÜª ºÄºvª£Ä
 PÄAiäPzº ¥qzÄPÆAqAvº -EOP DzÄMz PÄAiäPz ²ª±quAiäVzÄ¼.

2^aαU zÆ C|δ, ¯^ā PÁiĀP^aĒ PĒUĒAq UĒUⁱ^ā av±ĀC|¬ĀAz CzĒ^ā
 £q, ¯^āv¼, vĒĒ 2^aαU UĒUⁱ^ā av ±ĀC|¬ĀAz C|δ, ¯^āz@zĀ 2^a£Ē DgĀC, ¯^ā Sg^ā
 "PjU/E zÆ^āgWU, ¯^āiĀ MzV, ¯^āAv^o PÁiĀP^aĒ ¯^ā°vzÁV¹PĒArz¼^ā. 2^a¥/e
 PĒUĒAq UĒUⁱ^āiĀ μ^μiĀĒ^ā ¥jĀQ, ¯^ā M^āi, ¯^āPÁvⁱ ¥g²āĒ, ¯^āg zĒ|ĀiĀ^apĒ ¯^āμz^o
 ŠAzĀ vĒĒ ¯^āz^āāiĀiĀU^aAv UĒUⁱ^āiĀĒ^ā MvĀ¬, ¯^āvĒ. «^ā° ŠAzĒ "Āq^azĀ
 āĒ©|Ā 2^aĀ@iĀP, ¯^ājz^aĒ 2^aĒ «^ā°āU^aAv "ĀrPāiĒ^ā Eq^āvĒ. Dzg UĒUⁱ^ā
 «^ā°z ŠAzĒ^aĒ wq, |j, ¯^āv¼, DzĀwP Ē¬iĒ^ā Ea, ¯^āv¼.

CeÁ£z CAzPÁgª£Ä º£ÄU´Ár¹ eÁ£z ¨¼P£Ä ,APÄvªÁV z£¥ª£Ä U£Uª
S¼¹P£ArgSªÄzª.CAzg CA££ ,ªiÁdzºª£Äµ£ £ÁUjPvAiÄ fª££ª| Cµ£Azª CZª-
PmÁV Eªº® JASÄz£Ä £Áª| CjAiÄSªÄzª. C£Ág£ÄUizªªªÁV z£¥ª£Ä



G¥AiÆV¹PÆArgS°ÄzÄ. Q«ÄQÄIU¼ÆÄ Ä±¥r,Äª,®ÄÄV zÆ¥ªÆÄ G¥AiÆV,ÄwzÄGASÄzÄÄ Äª UÄÄ, S°ÄzÄ. CAZg CAÇE, aiÄdz° CÆÄP,ªÄ,¼Ä JÄ Pq aÄ¥PªÄV Daj¹PÆArziÄ. Ca¼ÄÄ ÄªÆð®E aiÄqÄÄzg,®ÄÄV zÆ¥ªÆÄ eÄEz QgtU¼,APÄvªÄV S¼¹PÆArgS°ÄzÄ JASÄzÄÄ Äª UÄÄ, S°ÄzÄ. CzÄ jÄwAiÄV ²ª ±guAiÄgÄ vªÄ DzÄvªÄzAv° fÄªEªÄ CAÇE dI®ÄÄzAv° ,aiÄdz° vªÄ GvªÄÄzAv° ÒEQP SzÄPEÄ gÆ¹PÆAqgÄ vªÄ ²ª ±guAiÄgÄ JASÄzÄÄ F CzÄiÄEz° aÄEUÄt S°ÄzÄ.

»ÄU ¥j,gªÄÄ ²ª±guAiÄz zÆ¥z UÆUªAiÄÄ ,ÄªiÄfP,ªÄ,¼Ä° ¥j,gz,ªÄ,iÄÄ MAZÄ. CzÄÄ AiiÄª jÄwAiÄV G¥AiÆV¹PÆ¼ÄÄ JASÄzÄÄ Äª Jµg aÄnU 12ÄÄ ±vªiÄEz° ²ª ±guAiÄgÄ ¥wAiÆzÄ PÄiÄPPÄ DzÄvz EÄiÄª aÄvªÄ PÆqÄwzÄgÄ JASÄzÄÄ F DzÄiÄEz° «±ÄÇ,ÄVz. MvÄÄÄzÄU UÆUª D bzÄÄµz ²ªÄU «Äg±ª ¹zÄAvU¼ÄÄ ÄÄÇ¹ ²ªÄPjU zÆ¥ C|ð,Äª PÄiÄPz° µgvÄUªAv G¥zÄ²¹z¼Av.

EÆÄª PÆzU®Eg zÆg ZÄgªÄgÄiÄÄ PÄÄ, Cg,Äv °EgmÄU UÆUªAiÄ vÆ zÆ¥z °EUAiÄ aÄÆ®P CªÄUÄV zÄj vÆÄjz¼AS ¥wÄwAiÄE Ez. vÆ fÄªEz PqAiÄ vÆP zÆ¥ C|ð,Äª PÄiÄP Äq,ÄvÄ vÆ Eµ zÄÄ ÄªÄÄÄ° LP¼Äz UÆUª zÆ¥z UÆUª JAZÄ ¥¹z¼ÄVz¼Ä. EAv° C¥Æªð ±gtAiÄ SUi ¹zÄÄ ÄÄÄÄ »ÄU SgÇzÄE. Äª»v zÆ¥z UÆUª JAÄP ²ªÄU zÆ¥ª ÄÄr PÄÄ, ¥zªÄÄ ²ªÄPjU vÆÄj ±APgE PÄ¥ ¥qz¼Ä. ÒEQP DzÄvz PÄiÄPz aÄvÇÄz ,ÄzÄÄÄÄ JASÄzÄÄ Äª PÄt S°ÄzÄVz.

UÆUª ²ªÄU zÆ¥ °ÄPªª PÄiÄP aiÄqvÆqVz¼Ä. MªÄ ²ª Cª¼ÄÄ ¥jÄQ,ÄPÄzÄ ,ÄgzÆ! AiÄªPÄ aÄµz°AiÄE SzÄÄ vÆÄÄ ÄzÄªAiÄUªAv MvÄiÄz ÄÄrPÄiÄÄ ÄÄqÄvÄE. Dzg UÆUª ÄzÄªAiÄU®Ä M¥z µgÄPj,Äv¼Ä. DPÄiÄ ägÄUÄP µU aÄaz ²ªÄÄ Cª¼U «Äg±ªÇ¥zÄªÄÄ °Ä¼ÄvÄE. ²ªÄPjU zÆ¥ªÄÄ C|ð,ÄvÄ fÄªE aiÄq®Ä °Ä¼ÄvÄE. DP CzÄ jÄwAiÄ PÄiÄPªÄÄ PÆUÆAqÄ PÄiÄPz aÄvªÄÄ ÄÄPPi,Äjz¼Ä. «dAiÄÄt ¥wPÄÄz F ÄÄRÄÄÄ vUZÄPÄ¼ÄÄVz. UÄgªÄg 21 DU,i 2014 JÄÄ. «±ÄvPÄiÄj. PÄqÄU®Eg zÆg ZÄgªÄgÄiÄÄU zÆ¥z °EUAiÄ aÄÆ®P PÄÄ,z zÄjAiÄÄÄ UÆUª vÆÄj,z¼Ä JÄÄvÄg. Dzg ZÄgªÄgÄiÄE PÄ® Q.±.7ÄÄ ±vªiÄEz; aZEPÄwðAiÄz F UÆUªAiÄ PÄ® 12ÄÄÄ ±vªiÄE. DzÄjAz DP EÆÄiS UÆUª JÄÄvÄg.²ªÄÄÄ CjAiÄ®Ä CZðE, ¥ÆdE, vÆÄÄÄU¼ÄÄ ,vÇÄz aiÄqÄÄPÄ; CjvÄ ÄgvÄ ÄÄÄ Äz«® JASÄzÄÄ «azÆ¥EÄjÄzP CZðE ¥ÆdE vÆÄÄÄ«®z PÄt ÄgÄÄ JAZÄ °ÄzÄg.

zÆ¥z aÄ²µ: zÆ¥ C|ð,Äª DgÄÇ,ÄªÄzAzg ,ÄPvðEÄÄ CªÄÄ ,Ä¹gÄª ,ÄUAz zÄ¼ÄÄÄ vPv PAQpI °ÄQ,Äª UAz ,Æªª zÆ¥z aÄÆ®P DgÄÇ,Äª «zÄE zÆ¥ °ÄP®Ä PAQpI S¼,Äª zÄ¼UÄt, ÄªÄU¼UÄtªÄV, zÆ¥zÄgwAiÄ ,Äg, GvµvU¼Ä µzÄðgªÄUÄvz. ²ÄUAzz ¥Är °ÄÄÄ ÄÄr ,ÄÄÄtU¼ÄÄ zÆ¥P G¥AiÆV¹zÄU ,ÄvÄÄ ,Äg ¥j,Ävz.ªÄgz °EiÄÄ G¥AiÆV¹zÄU PÄª®,ÄiÄªÄ,Ä °gqÄvz. °®Äª ,ÄU¼Ä PAQpI ©zÄU zÄUðÄz °gqÄvz. SzÄPAS zÆ¥zÄgwAiÄ PAQpI ÄªÄÄÄªª gd,Ä



v^aÄ, Ä , vUÄ tU¼Ä äÄÄAvz ¨ÁªE U¼Ä Cä± ¥Etð zªU¼EÄ , ÁgªÁV zE¥z °EU
 -ÆÄPP-Ä »vPgªÁz ¥jª¼Ä CxªÁ G¹gª Pn, Äª P®, zª¼ÄÜð ±ÄC¼U¼Ä PÄAiÄP
 ¹zÄAvz ¥gªÄÄAiªª C£Ä, ÁgªÁV zE¥zª, ÄU¼EÄ , AU»¹ CjªÁUÄvz JASz£Ä F
 Cz¼Ai£z° PAqÄPE¼S°ÄzÄ.

UÆU¹aAi² zÆ¥z a²vÆAz² C¥Æ^að±0:

ZÄ^aÄGädzÆgU vE zÆƳz °ÆUIÄ^a ÄÆ®P Pē⁻Ä, Ƴx^aEÄ vÆĲj zÄI,
 ,ÄZÄgt^aÄV °ÆU PtE zEⁱÄIÄEÄ^a ÄÄ, ÄPÄ^a iÄqÄ^ai z@zÄ Eqa Ƴx^aEÄ^a ÄŠÄUE½, Ävz.
 UÆUⁱÄIÄ zÆƳz °ÆU Pē⁻Ä, Ƴx^aEÄ vÆĲj vAzg D °ÆU ¼QE Ƴx^aDV zÄj
 vÆjgS°ÄzÄ JAZÄ^aE, ÄD±ÄiÄöPg^aÄUävz. UÆUⁱÄ vE zÆƳzÄGÄzEU Š¼, ÄäizÄ^aQ
 äigÄUi, vÄU, ±zi, Äw ÄAvÄ CEÄ^aÄU¼ zÄUAzz ƳÄr; °ÄUIÄÄ D zÆƳ CÄ¼
 ÄÄ¹ÄAxou Ƴg^aÄ IÄI.

- f.«.dAiÄgÁd±ÃRg

zÆ¥z UÆU¹a|Ai²Ä³ a Z£U^{1/4} «±Äµu:

"ÉÁ¹ÉÁx" CAQvz ° UÆU|ª ga¹gÄª DgÄ ºZEU¼Ä zÆgQª. '²ªEÆÄ', CjvÄ
 "gv ªÄÄ—" Äz«® JAŠÄzEÄÄ "azÆ¥E£jª|zP| CZðE ¥Ee£ vñ|EªªÄ«®z
 Pát "ÁgzÄ" JAZÄ ¯ª½z¾¼. ¯AUÆ UÆU|ªAiÄ ºZEÜ¼º. ¯ÄZájPv, DzÄWP 1¢; CEÄ—Áª
 WI, ¼¼ 1zÁAvz D¼ªAz Cjª| ¯ävÄ vÄEÄ , ÁPávj¹PÆAq PÁuU¼ÆÄ ¥ÁPíWp zìµÁAvU¼
 ¯ÄÆ©P ±¼UÆ½, ¯ª Cª¼Ä , ÁªÄðxiP| , ÁQiivzv. ¥ÁPgwp zìµÁAvU¼ ¯ÄÆ©P ²ª¥x
 , ÁZEAiª ¯LP|, ¼¼z ¥ÁgªÄªEÄ UÆU|ª »ÄU «±ÇÁPj ÄvÄ".

“C£® PÆAq “ÆÃUP| ¥j¥PÁq a|Am

$$\pm q\phi \quad P\bar{E}Aq \quad \acute{A}UqP\grave{I} \quad P\ddot{A}q\ddot{A}\gg\pounds \quad P^{-}Ai\ddot{A}\ddot{A}$$

°AU aÄÄIz CAUP aÄv ¥Ät|a|AmÄ? £Á¹£ÁxÁ.

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"AQAIÄ° "AZÄ ¥PÄÄZ ¥ZÄXð V£I ÄÄÄ£E ,g£¥, "ÄZ, ¥PÄgU¼£ÄÄ
 G½1P£Arg@Ä ,ÄziÄÄ? v¥¬ vÄÄ© "Ä£gÄÄ C£IÄ£ÄÄ J°Az °ÄU vUZÄP£Aqg£ MAZÄ
 gÄÄ MAZÄ ,g£¥«gÄÄAv, DzÄvi, C£Ä"ÄÄU¼ÄS "AQ¬ÄÄZ DÄj ,®IÄ ¥PU£Aq £Av
 fÄÄ - ¥gÄIÄXð£° "Äg-"Äg fÄ«U¼° "ÄZ«gÄÄI£®. ,ÄÄÄZ ±g£ÄIÄ° MAZÄUÄvz.
 ,ÄUgÄAzg PÄ®z MAZÄ Ut£ JÄZ£ Cxð«z. MAZÄ Pt C£Av PÄ®z° MAZÄV
 ¥vÄPvÄIÄ PÄgÄ°Ä G½ÄIÄÄÄI£®. ,I£«PÄ, PÄÄZ° Ä£I Ä£Z® °AvÄ£Ä ±gtgÄ
 ±££I°AU JÄZÄ Pg£zÄg. EAv° ,ÄPÄg £gÄPÄg (°AU ,ÄPÄg, ±££I £gÄPÄg, ±££I°AU
 ,ÄPÄvÄgÄÄZ CAUPl fÄ«U EzQAv®£ «ÄV¬ÄZ ,ÄPäv - ¥Äti - ÄiiÄÄI£z? Ez£ÄZÄ
 ,vi."ÄgÄIÄZ° ¥Ä1 JÄZÄ v£I £Ä1£ÄXÜ U£UjÄÄ ÄÄÄ£1P£¼ÄvÄ¼. ±gt,w - °AU¥w,
 LPÄI¼ 1zÄAvU¼Ä °ÄU ,g¼ÄÄV C©ÄI®. ®nÄ.

Gz|^a£ÄgÄ^a|zP| UzÄU¬Ä®z JAiÄ^{..}ÄgzÄ
azÆ¥££j^a|zP| CZð£ ¥Æd£



774

- 1) $\pm \dot{A}, EU\frac{1}{4}^{\circ} \text{ } ^2a \pm g t Ai\ddot{A}g\ddot{A} - q\dot{A} \parallel az\dot{A}\dot{E}Az^a\ddot{A}\dot{E}w\ddot{o}$
- 2) $q\dot{A}.ZEIPE \text{ } \overline{A}RE$
- 3) $\text{ } ^2a \pm g t Ai\ddot{A}g \text{ } ^aZE, A\neq\ddot{A}I - q\dot{A} \ll \ddot{A}g t g\dot{A}d\dot{E}g$
- 4) $\pm \dot{E}\dot{E}\dot{i}, A\neq\dot{A}zEU\frac{1}{4}\ddot{A}$
- 5) $\ddot{i}g^a\ddot{A}\pm g Px\dot{A}^a\ddot{A}t, \dot{E}v gv\dot{A}g\odot U \text{ } 2$
- 6) $f.\ll dAi\ddot{A}g\dot{A}d\pm\ddot{A}Rg$
- 7) $\S, ^aAi\ddot{A}\ddot{A}Uz \text{ } ^aZE \text{ } ^a\ddot{A}^{\circ}\dot{A}, A\neq\ddot{A}I - 777$



Adhunika Kannada Katha Sahitya Mattu Pratibhatane

-Dr.Girish desur

DzÄP PElq PxÁ, Á»vî áÄvÄ ¥w" lÉ

-qÁ. VjÄ± zÄ,Æg

áÄÄRî,lgÄ, PElq «"ÁU

,PÁđj ¥xáÄzeđ PÁ-dÄ, P@WlV-581204

zÄgáÄq-f

¥w" lÉ JAzÄ vUZÄPÆAqÁU ¥w" lÉAiÄ »Az ÉÆÄ«z, CªaiÁÉ«z, ±ÆÄmu-Äz. F ÉÆÄá, CªaiÁÉ, ±ÆÄmuU½ÆÄ P-ÄPwAiiÁV ¥jªwđ,Äª P@,zª vÆqVgªª áÄÄµiÉ, ðÉ²Ä® ZlÄªnP¼ PqU UªªÉ °j, SªÄzÄ. Á»vî, È¶AiÄª EAX ZlÄªnP¼ MAZÄ "ÁU. zª-Ä®z zÉ»P áÄvÄ áiÁÉ¹P AiiÁvÉAiÄª PÆEU zªPiÆAzÉÄ ¥qzÄPÆAqÁU MAZÄ Px °Ä½vÆqUÄvz. D PxAiÄª áiÁwÉª áÄÆrSgz ÉÆÄ«É C,ªAiÄPv, CAVª C,ªAiÄPvAiÄ gÁdQÄAiÄ ¥juªªÄU½ª áÄvÄ ÉÆÄá ÄÄrAiiÜªª ¥QÄiÄAiÄ,ÆPÜU½ª EªªÉÄÉª °Ä½vz. Eªªzg M½UÆ½ª«PAiÄÉÄª °Ä½vz. °ÁUÁV F ÉÆÄá, CªaiÁÉ, ±ÆÄmuU½ÆÄ P-ÄPwAiiÁV ¥jªwđ,Äª P@,zª °gvÉÁUªÄzAzg ÉwPªÁV SzvAiÄÉÄª 1Äpj,Äª °ÁUÆ ÉÆÄá, CªaiÁÉ, ±ÆÄmuU½U PÁgtªÁUªª ±QU½ÆÄ JzÄj,Äª,ªÄ®ÉÄª M¹PÆ½ªª QÄiÄ DVz. Czg °ÆgvÄ PÄªªª ÄÄÉÆgAdÉAiÄ °ªÄª,ªª.

DzÄP PÁRWlZ MAZÄ áÄªvz ®PtªAzg ÉÆÄ«U, CªaiÁÉP, ±ÆÄmuU UÄjAiiÄz,ªÄÄzÁAiÄz PªªgÄ DzÄP ²Pt ¥qAiÄªª áÄÆ®ª «zÄªAvGÁV °Æg ¥¥AZz áÄzÄjPvU vgzÄPÆAqgÄ. Á»vî gZÉAiÄ áÄÆ®ª zª-Ä®zªjU zªAiiÄzgÄ.

ÉÆÄá, CªaiÁÉ, ±ÆÄmu, C,ªiÁÉv, SqvÉ, vÁgvªÄª (eÁw, °AU, aUđ,ª tđ, ¥zÄ± vÁgvªÄª), ¥ªvz zÉdðÉ, CªiÁÉ«ÄAiÄ Éqª½P EªªªU½ÆÄ ¥²,Äª áÄÆ®ª ¥w" lÉ ÉÄÉÄ ¥PÁgUªª DzÄP PxUªª zÄR-Ävz.

ÉÆÄ«É P-ÄvP CªªQÄiÄª, Á»wP CªªQ. EzjAz ÉÆÄ«U PÁgtU½ÆÄª °ÄqAQ °ÆgÁl zª áÄÆ®ª ¥j¹wAiÄÉÄª Sz-Ä-Ä, SªÄzÄ. Áª,ü ¥jªg PAqPÆ½Sªª JAS DªAiÄªAz, Á»vî SgªtUÄiÄÉÄª ¥ÁgAª¹z °ªªªªzª±ðÉU½ÆÄª PÁtªvªª. ÉÆÄ«É PÁgtU½ÆÄ, CªªU½ª ¥jªgU½ÆÄª PwAiÄª CªªQ,Äªzªg áÄÆ®ª,ªiÁÉ áÄÉ,ª °ÄzAiÄU½ªª «ÄP GÄiÄªiÄr ¥w" lÉAiÄ ¥eªªv eÄUwAiÄÉÄª áÄÆr,ªªzÄ EAX gZÉU½ DªAiÄ.

¥w" lÉ °ÆgÁlªª DUªªQ®. ¥ªª,ªiÉÉ, PÆÄz, C,ªPÁg, vtÉAiÄ DPÆÄ±, ¥wgÆÄz,ªiAU-Eªªª¥w" lÉAiÄ ««zªiÄzjU½ÆÄ.

DzÄP PElq PxÁ, Á»vîªª ¥w" lÉ °ªªªjÄwAiÄªª CªªPªÁVz.ªªgªª PÁRWlZ PxÁ, Á»vîªª F ¥w" lÉAiÄª °ªªªªiÄzjU½ÆÄ CªªPUÆAq jÄwAiÄÉÄª Pªªªª ¥ÁwªP PxU½ª áÄÆ®ª F P½U Zađ,Ävz.



£ªÇÃzAiÄ

$\mathcal{E}^{\mathfrak{a}}\check{\mathcal{A}}\mathfrak{Z}\mathfrak{A}\mathfrak{I}\mathfrak{A} \text{ P}\mathfrak{A}\otimes \text{ P}\mathfrak{v}\mathfrak{U}\mathfrak{Y}\mathfrak{A} \text{ , } \mathfrak{A}^{\mathfrak{a}}\mathfrak{i}\mathfrak{A}\mathfrak{I}\mathfrak{E}^{\mathfrak{a}}\mathfrak{A}\mathfrak{V} \text{ a}\mathfrak{Z}\mathfrak{i}\mathfrak{a}\mathfrak{A}\mathfrak{U}\mathfrak{O}\mathfrak{Z} \text{ f}\mathfrak{A}^{\mathfrak{a}}\mathfrak{E}^{\mathfrak{a}}\mathfrak{E}\mathfrak{A}\mathfrak{O} \text{ aw,}\mathfrak{A}\mathfrak{V}\mathfrak{Z}.$
 $\mathfrak{A}^{\mathfrak{a}}\mathfrak{i}\mathfrak{A}\mathfrak{I}\mathfrak{F} \text{ K}\mathfrak{g}\mathfrak{A}-\mathfrak{Y}\mathfrak{A}\mathfrak{G}\mathfrak{A}\mathfrak{U}\mathfrak{Y}\mathfrak{A}\mathfrak{E}\mathfrak{A}\mathfrak{O} \text{ } \mathcal{E}^{\mathfrak{a}}\check{\mathcal{A}}\mathfrak{Z}\mathfrak{A}\mathfrak{I}\mathfrak{A} \text{ P}\mathfrak{v}\mathfrak{U}\mathfrak{A}\mathfrak{g}\mathfrak{g}\mathfrak{A} \text{ U}\mathfrak{A}\mathfrak{g}\mathfrak{A}\mathfrak{w}^{\mathfrak{1}}\mathfrak{Z}\mathfrak{g}\mathfrak{E} \text{ P}\mathfrak{E}\mathfrak{I}\mathfrak{A}\mathfrak{A}\mathfrak{C}\mathfrak{P} \text{ } \mathfrak{Y}\mathfrak{j},\mathfrak{g}\mathfrak{A}^{\mathfrak{a}} \text{ C}\mathfrak{a}\mathfrak{g}$
 $\text{P}\mathfrak{v}\mathfrak{U}\mathfrak{Y}\mathfrak{A}^{\circ} \text{ }\ll \mathfrak{d}\mathfrak{i}\mathfrak{A}\mathfrak{C}\mathfrak{O}\mathfrak{O},\mathfrak{A}\mathfrak{V}\mathfrak{Z}.$ $\circ \mathfrak{t}\mathfrak{A}-\mathfrak{U}\mathfrak{A}\mathfrak{r}\mathfrak{E} \text{ } \mathfrak{Y}\mathfrak{A}^{\mathfrak{a}}\mathfrak{A} \text{ C}^{\circ} \text{ J}\mathfrak{z}\mathfrak{A}\mathfrak{I} \text{ P}\mathfrak{A}\mathfrak{t}\mathfrak{A}\mathfrak{V}\mathfrak{Z}.$ $\mathfrak{v}\mathfrak{A}-\mathfrak{A}-\mathfrak{v}\mathfrak{A}\mathfrak{Z}, \text{ C}\mathfrak{P}\mathfrak{i}-\mathfrak{v}\mathfrak{A}\mathfrak{V},$
 $\mathfrak{S}\mathfrak{A}\mathfrak{Z}\mathfrak{A}-\mathfrak{S}\mathfrak{Y}\mathfrak{A}\mathfrak{U}\mathfrak{Z} \text{ , } \mathfrak{A}^{\mathfrak{a}} \text{ av}\mathfrak{a}\mathfrak{C} \text{ C}^{\circ} \text{ } \mathfrak{A}\mathfrak{P}\mathfrak{A}\mathfrak{Z}\mathfrak{I}\mathfrak{I}\mathfrak{Z}.$

£ªÇZAiÄZ ,Az¨ðz° CĖĖP šz´ÁªuU¼Ā (©Ė ĀĖĖĖZªĀĎ) PªQĀ šAzgĖ
 J® šz´ÁªuU¼ªAiĖ ģtĀ-UªĖ ,AšAz, vAz-ªĖP¼ ,AšAz, Ĭ° ,AšAz
 ¢ĀĀVªZªU¼° £ªĬ ,A, ĩwAiĀ Un J¼U¼Ā EzĀ Eª. JAx šz´ÁªuAiĀªAiĖ ,Ĭ°-
 ĬĀw, ¢ªĖĀĖw-CĖĖPª, vAiU-š°zªĖU¼Ā Aiiªª Pª®PĖ fĀªAvªĀV EgªªAxª.
 ¢iĖĖ«ĀiĀ ¢iĖ®U¼Ė Ė½¹PĖAqĀ DPĖĀ±, ¥w¨ ĬĖ vĖĖg¨ĀPªUªvz.

£ªÇzAİÄ PÄ@Wİz ¥ªÄÄR ¯ÄRP ªävÄ DzÄP P£İq PxA ¸ª»vİz d£P
 JAzÄ ¥¹zİgÄz ºÄªª, g (ªİÄ¹) PvU¼ dUvÄ ªİÄ£«ÄÄİÄ D±ÄİÄU½Az vÄÄ@z dUvÄ.
 Cªg ¥ÄvU¼ °gªÇ z£qzÄ. ¥İgÄUÄw°Ä, U¼ £ÄÄİÄP-£ÄÄİÄQÄİÄJAz wÄg C®
 fÄ«U¼ªgU Cªg ¥ÄvU¼ ª£«zİ«z. Cªg PvU¼Ä M¼U£¼Äª ªİÄ£«ÄÄİÄ C£ÄªªU¼
 «±Ä@v CÜÄzªÄzÄ.

aⁱÁ¹AiÄ^ag PxU¼° ¥w¨ lEÄiÄ D±ÄiÄU¼Ä C®° ŠA¢^a. aⁱÁ¹AiÄ^ag
 ‚AfÄ^a£ ‚¥zAx PxU¼° ‚ÄiÄfP Šz[‐]Ä^auÄiÄ av E£µÄ D¼^aÄV aÄiÄPaÄV
 aÄErŠgÄvz. dÄiÄ °EÄV PÄ¥i ŠgÄ^a ‚AfÄ^a£ ‚¥iz aÄE®P Px Šz[‐]Ä^auÄiÄ
 CªÄÄiÄÄöVÄiÄ£Ä, F °E, aÄ, a^vU ‚ziz ¥wQÄiÄiÄV ‚AfÄ^a£ eÄwPqÄ^a ¨ÄiÄ^a£Ä
 P[‐]ÄvPaÄV zÄR®Ä aⁱÄqÄvz.

^aAPnUE °Aqw, £½AIÄ vAz, DAU £EPÁ PÄ¥£I, °API±Ä«ÄAIÄ ¥tAIÄ
^a£Z-ÁZ PxU¼Ä °ÄZÄa, PÄIÄÄSzAx ,A, U¼£ÄÄ ¥², Äv^a. ^aIQU¼ GzÁvAIÄ£ÄÄ
aw.Äv-Ä C^agÄ SzÄPÄwgÄ ,Az¨öU¼£ÄÄ «^aÄÄövpÄÄV ¥j²Ä¨. Äv^a.

[illegible]

ŠÆz-vĀP JAS ESgā aP^aĀP/vā PmYIā “¼Aiā PAZĒĀ °Ėvā vAZā vAZ-
vā-ĀU¼ĒĀ Pār “Ār °a“¼,ĀvĀg. Czā “¼zAv ,A“āUĖ¼vĀvĀg. °Ėaĭ PĀ-ĀiiĀv.
PĀ-Ā °uĀv aiUĀĀĀvĒ DvĀg vāi zĀrāā ¥®PĖnvAS ,AvĒĀμ-JĀ Cag D±AiĀz
GvIvAiĒĒs PtU PIĀĀAv aiĀqĀv^a. Dzg F “¼Aiā° tĒ UĖĖU¼vā zpAiĀg PtU



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 ,vi£ÁGÁÁiÁt£ ¥£eAiÁ £az° CájU MAZÁ °t£E£ ©qz ErAiÁ U££EÁiÁ£Á
 vj1P£EAQÁU D aÁP½U wÁa °gÁ±AiiÁUÁvz. CµÁ D±ÁÁZ ¼1z ¼ÁiÁ Vqz °t£
 U££ zPÁiÁg ,vi£ÁGÁÁiÁt£ ¥£eUAZÁ °£ÁZÁU CzPí °ÁiÁa ¥wÍ l£ÁiÁ®/£ °®Á
 ,gU¼£Á PÁtS°ÁZÁ. PÁqÁP£EAZÁ vUZÁP£EAQÁ °£ÁÁvAZÁ vÁÁ °Á½ZÁU D P£EÁ
 ±Í, Áa aPÁÁUÁ z£Á£ZÁ wÁg aÁÁU: ¥wÍ l£. vÁÁU MAZ£ °t£ ©qz JÁ vÁ£Á
 v£lSÁiÁ, Áa ,vi£ÁGÁÁiÁt££Á ±Í, Áa vÁ, Á z£q aÁP¼ZÁ UÁjU E£µÁ ,«ÁÁ¥ÁZ
 ¥wÍ l£. C£ÁiÁÁZ wÁav F aÁP½U vÁUÁµÁ wÁaÁV Cag vAz-vÁÁU¼U vÁUÁa£®.
 CagzÁ F C£ÁiÁÁP DUÁ MVi°£Áv dqÁÁZ aÁ£, Á. aÁP½U EzjAz wÁa
 zÁBRÁÁUÁvz. PxAiÁ P£EU S£z aÁvÁ vÁQÁiÁgÁ CAU¼Pí SÁZÁ °azÍ D ÁÁiÁ
 PAZU¼£Á »rzÁ SVi¹ wgÁ« aÁÁjÁiÁÁvÁ EÁ U££ °ÁP£Áz£ Áq, D ,vi£ÁGÁÁiÁt
 w££ÁZÁ ÁqÁ J£Áv aÁjzÁ °ÁQ C¬ P, gÁ¼ÁAv vPvP PÁtÁiÁÁvÁg. C£ÁiÁÁZ
 «gÁzÍ ,AvÁÁZ £ÁÁa g£ÁµU¼® MÁÁ ,£ÁiU£EAQAv ¥PíÁÁUÁ E°ÁiÁ
 ¥wÍ l£ÁiÁ jÁw Cxð¥£tðÁZ, °£ZÁiÁ, ²ðÁiÁZ C°ÁQÁiÁÁv PÁtÁvz.

¥Uw²Á® ,Á»vi

,aiÁda v£lµPí vÁ£ ¼ÁiÁÁvZÁiÁÁZÁ ¥Uw²Á®gÁ £ASÁa£®. CzP£EAZÁ
 a£eÁaP ÁiÁÁÁ«z. WµðuÁiÁÁ °£, vÁZÁZÁ °ÁiÁvz. EzÁ aUðzÁz. J® ,Áz£
 ,A¥vÁU¼££, L»P-, ÁA, µP a£E®U¼££ v£l P£ÁiÁÁ Ej1P£EAQÁ D¼Áa ±£ÁµP
 aUðÁ PÁ®Pí vPÁv °£, °, gÁ, St, g£¥U¼° ¼ZÁP£EAQÁ SÁ£z. ,Á»vi, ,A, µw
 °ÁU£ PÁiÁ PÁvU¼®£ Czg zÁµ ¥ÁaU¼gÁz£Á ¥Uw²Á®gÁ UÁ£Pí vUZÁP£ÁvÁvÁg.
 EAxzg ,aÁ£® £Á±£AZÁ ÁÁv aUð ,aÁgÁ£Á ©gÁ, ÁU£½, ÁazjAz aiÁvÁÁ EzÁ
 ,Ázi. °£, ,aiÁd aÁvÁ ,A, µwU¼, £¶, Ázi. F ,AWµðz°, ,Á»viÁ£ MAZÁ C, ÁAZÁ
 ¥Uw²Á®gÁ Á«Á, ÁvÁg

¥Uw²Á®vÁiÁ£Á vÁi SgªtUÁiÁ aÁÁRí z£ÁguÁiÁÁv 1ÁPj1z ÁRPg°
 PnªÁÁÁiÁªg£ MŠgÁ. Cag ¥Uw²Á® ®ÁÁa °ZÁ GUªÁzzÁ, Cag M®ÁU¼Á °ZÁ
 ,µªÁZÁÁ. £ÁÁ ,aiÁdz C£ÁiÁÁ, qAÁZÁg, µvU¼£Á ®zðÁiÁÁv SÁiÁ°U¼ÁiÁÁa
 °®ÁgÁ Px PÁZASjU¼£Á CagÁ Sg£zÁg. °¹«£, Sqv£z PgÁ½jÁiÁÁa avU¼£Á
 P£enzÁg. ErAiÁ µ aª, ÁiÁ£Á ,ÁiÁ°ÁQ ©qÁPAS ,ÁwP P¼P½ Cájvz. Cag
 SgªtUÁiÁ »Az 1n£ SÁ, ÁUÁqªa ,zÁ AiiÁÁÁU®£ PÁ½Ávz. CagÁ SzÁP£Á »rÁiÁÁa
 PÁZ° aÁvÁ SgªtUÁiÁ zÁNÁiÁ° PÁtÁ MAZÁ SUIÁ MglÁv£Pí F 1mÁ
 PÁgtÁÁvGªÁAwz. 'Vj£Á PAq 1ªªiÁ', 'fÁª£P', 'S£mí ¥Á°±í', 'g¬ÁZ °£gU' Eª®
 «²µ ¥Uw²Á® PxU¼Á. PnªÁÁÁiÁªg PxU¼° ±£Áµu, Sqv£U¼ «gÁzÍ K££Áz£g£
 a£Áqªa, SÁqÁ¼Á D±ÁiÁ PÁtÁvz. PnªÁÁÁiÁªg PÁgª£, DU, ĩ MA¬vÁ EAx PxU¼Á
 ££Á«£ zP °ÁU£ SzÁaUÁiÁ D±ÁiÁ£Á aP¥r, Áva.

1950 g° ZzÁgAUg '±ªz a£' PxÁ ,AP®£ ¥PIU£ArvÁ. F ,AP®£z
 a£z® Px '±ªz a£' ZzÁgAUjU ,ÁPµÁ °, g£Á vAZÁ P£l Px. ,AP®£z aÁ°vz
 PxÁiÁ£ °£ZÁ. ¥Uw²Á® z£Águ, ®ÁÁU¼£Á CviAv ±QÁiÁÁvÁv ¥w®A®, Áa Px EzÁ.
 G¼ájU aiÁv SzÁPÁa °Qgªa F ,aiÁdz° 'E®zªg' AiiÁ£ÁiÁ° Sgªª £Ágt¥µU
 ,aiÁd SzÁPÁa °P£Á °gÁPj1, SzÁQgªÁUÁ Dv££Á ±ªz aÁ£EU ,Áj, Áa zÁgAv



Ε°ΕζΑ. D ±az αΑΕΑΙΑ° CzÄ , αiÁdz ±ΕÄμU M¼UÁV FUAU-Ä ±aU¼ÁV αÄ°ÁzÄ«, αAPlgÄt, °ΕÄm-í αiÁt, eÁqαiÁ° - F αÄÄAvÁzªgÄ , Äj©nzÁlg. SzÄQgÄαÁU-Ä , wgÄªEAzÄ J¼zÄ vAzÄ ±az αÄEU °ÁQ¹PÆArgÄª ΕÁgt¥Ε ¥wÄP F , αiÁdz CviAv ¥gαiÁª¢ CαiÁΕÄμvΕzÄ. °ΕgVΕ vÆÄjPAiÄ fÄªAv SzÄQE αfðªvVAv, αfðªªαÁVzAiÄΕÄª ±az αÄΕAiΕ¼VΕ fÄªAwPAiÄΕiÄ Εμ¥qÄª αÄΕ®P '±az αÄΕ' Px, CAV° , αiÁdz «gÄiz CviAv zα¥Εtð °ÁU/Ε , ÄªðPª°ÄP ¥w" lΕAiÄΕÄ zÄR®Ä αiÁqÄvz.

¥Uw²Ä® PxU¼Äª αÄÄRiªÁV PÉUÄjPÄ , Az"ðz° GAmÁz PÄ«ÄðP αÄvÄ SAgªª¼±Ä» ΕqÄªt °ΕÄgÄlªΕÄ Jw vÆÄj¹vÄ. °ZÁV F Jgq/Ε αUðU¼ , AWμðz αiÁzjAiÄΕÄ S»gAU¥r¹vÄ.

¥Uw²Ä® , Ä»viz° αgAdΕg 'Äª°Ε S¼P', ZzÄjzª αÄÄqU¼Ä', 'PÆΕAiÄ VgÄQ'ÄiÄAx PxU¼°AiÄÄ ¥w" lΕAiÄ , t zα Εz.

Εªl , Ä»v

Εªl , Ä»v lΕªÇzAiÄ , Ä»viz "ªªP -ÆÄPP l«gÄziªÁz 'αÄΕÄμªΕΕÄ ±ΕÄ¢¹ C©ªiQ, vÆqVvÄ. , ÄΕÄªz »Εl-ÄiÄ° αÄΕÄμiΕ CAVgAUªΕÄ Cxð αiÄRPE¼®Ä Εªl , Ä»v , AP°¹vÄ. ±z- C±AP, DgÁzΕ-«qASΕ, PE, ÄUÄjP-ªÄ,ª ¥el , , g¼v- , AQÄtðv, CAVgAU-S»gAU, αiQ-,ªÄÄzÁAiÄ, "Ε«Ä-DP± »ÄU CΕÄP zAzU¼ΕÄ Ε¢gÄ °ÁQPÆAQÄ Εªl -ÄRP CΕÄªª ¥ªiÁtiz° SzÄQE CxðªΕÄ °ÄqÄQPÆAQÄ °Εgl αiUEÄAiÄPEÁV ΕªAU PÄtÄvÆΕ.

Εªl -ÄRPg zÆÄguU¼Ä lΕªÇzAiÄzªgμÄ RavªÁzªU¼®. CªgÄ , A±AiÄfÄ«U¼Ä. Cªg ,ªÄ, iU¼Ä , ÄªiÄfP ,ªÄ, iU¼Av , Ε®ªÁzÄz®. αiÈ®U¼ ±ÆÄzΕAiÄ Cªg PÉwU¼ª ÄÄÄRi GzÄªªÁUAvzAiÄª °ΕgvÄ, ,ªÄ, iAiÄ ¥j°Ägª ÄÄÄRiªÁUªªl¢®.

Εªl , Ä»viz° Εq¢gÄª MAzÄª αÄ°vz P®,ªAzg αiÈ®U¼ª ¥ÄΕ«ðª±ð. lΕªÇzAiÄ PÁ®z -ÄRPgÄ °ZÁV ¥gA¥gÁUv αiÈ®U¼ΕÄ M¹PÆAqgÄ. Ε®ª, D PÁ®z° °ZÄ ¥ªªªz°zªiU¼ΕÄ »rzÄPÆAqgÄ. »ÄUÁV °Ε, αiÈ®U¼UÁV ±ΕÄ¢, "ÄPáz Ppt ¥j±ªª¢Az CªgÄ ¥ÁgÁzgÄ. Dzg Εªl -ÄRPgÄ F GU ¥jÄPU vªÄΕÄ vªª UÄj¥r¹PÆ¼zªªªð°«®zÁVz. SzÄQE αiÈ®U¼ΕÄª αÄvªÆz°ªAz ±ΕÄ¢, "ÄPÁVzÄ, CªU¼ , gΕªªªEAzÄª±ª, "ÄPÁzÄ CªgªÄÄA¢gÄªªªvz ,ªÄ, iU¼Avª.

l. ®AP±g gEn PxAiÄ°. ©PÄPEAwz l MSi αiQ °¼AiÄ °tªªÁU¼ PÉAiÄ°Ε gEnAiÄΕÄ P¹zÄPÆ¼ªª zÄ SgÄvz. Ε° °¹«Ε DPÆ± CªΕΕÄ gEn ¥qAiÄªªzgªÄΕ®P vt , Ävz. F PxAiÄ° PAqÄ SgÄª wªªªz , ÄªiÄfP ¥eAiÄ JZg CviVlªvª l C©ªiQU , ÄQÄiÄVz.

«ÄUª ±ÄAvÄ±g Cªg αgÄPgu, ©qÄUq PxU¼° ¥w" lΕAiÄ zαU¼ª.

ªÄzÄ»AiÄªg , ΕUA¢AiÄ , UvU¼ª PxAiÄ° vΕl C¥-Cªg «ZÁgu¼U ¥w"n, Ävª¼. Dzg D ¥w" lΕ C©ªiPªÁUzÄ , UvªÁVÄiÄª G¼AiÄÄvz.



z°v-ŠAqÁiĀ, Á»vi

z°v ŠAqÁiĀz, Az°žz° aUđ zēTPĒĒz eĒvAiĀā a tđ aĵa, ĀiĀ PĒgvEP 1Q Š¼@āwgā uĀ«ĀĀt ŠzĀQE ±āā, A, āwAiĀĒā °@ā ĀRPgā vāā, Á»viPwU¼ āĀĒP CĀPvāÁV C@āQ1z gĀ. z°v ŠAqÁiĀ Šg°Uāggā vāā, āĀzÁiĀz Cāvgā¼z ĒĒā, °vā±, JZgU¼Ēā āiĀĒ«ĀiĀ ĒĀiĀ āĀĒP, Á»wP ŸoĵāÁV¹ āĀĒā, āiĀdz āĀĀz, Ázgr¹z gĀ. Cāg, Á»viz°Ē F z°v, āĀzÁiĀ CĒĀ°«¹z ĒĒā, °vā±U¼ CĒĀ°ā ĒāgāÁV, °ēzAiĀg °ēzAiĀāĒ P@QVĀ. z°vgā ŸI Ÿāqā, Czg PĀgtU¼ PwAiĀ° C@āPUĒEq PĀgtĀz, āiĀĒ āĒĒ, °ēzAiĀg° «āĀP GĀĀāiĀr Ÿw° ĒĒā Ēe āĀĒr¹zāā. CAX P@ā ŸāwāP PxU¼Ēā E° ĒĒāqŠ°ĀzĀ.

z°v Ÿe, ĒĀvĒ āiĒ@U¼Ēā, a tđ °ĀUĒ eāwAiĀ ±āμvAiĀĒā «gĒĀĀ, āvz. z°vg āĀĀ DPāĀt āiĀqāwgā ŸgāŸgāUvāÁV ŠAz, Īv āiĒ@U¼Ēā Ÿ², ĀāzĀ, vāvāgĀz PĀtāāzā āvā, Á»viz° CzĒā «qā@, āāzĀ, ° z°v, Á»viz āĀĀR ĠzĀ±āĀĀvā. z°v, Á»vi KPP@P z°vg fāāz 1wUwU¼Ēā °Ā¼āvĀĀ D, āĒĒ°z D±AiĀU¼Ēā ŸPĪŸr, āvz. vāĒā ±ĒāμU M¼Ÿr, āā āĀĀ, A, āwAiĀ ŸwUā«ā zĒāguU¼Ēā z°v, Á»vi RqĀRārvāÁV wg, Ī, āvā dĒŸg āiĒ@U¼v vĒ UāĒāĒā PĀĀĀPj¹vā.

ŠAqÁiĀ, Á»viz° Ēāā ŸzĀāÁV PĀĀā Āā PĒĀz Cxāā 1Ā. āĪQUvāÁvgzĀ, āiĀāĀTāiĀvgā F DPĒ±, Ārāz PĒrz@. ŠzĀV vāwP Ē ŸqzzĀ. F, āiĀdzā, ĀiĀ°gā C, āiĀĒvAiĀĒā Pāqā 1ĀUĒ¼Āgzāgā, CĒĀiĀz «gāzĀ Ÿw° ĒĒā ĀiĀqĀgzāgā JĀĀUĒ ŠAqÁiĀUāggāUĀggā JĀŠzĀ z°v-ŠAqÁiĀ, Á»viz @āā. “RqĀĀU°Ā PĀā dĒg ĒĒā«U «Ārā ŸĀt«Āv” JĒā WĒāμAiĒĀĀ ŠAqÁiĀ, Á»vi Z¼āā Ÿāgā°āĀĀvā.

z°v, AāzĒ, āĀĀ1A, AāzĒ, āĀ¼ā, AāzĒ, °ĀUĒ UĀ«ĀĀt, AāzĒ Ēā z°v-ŠAqÁiĀ, Á»viz ŸāĀR, AāzĒU¼āvā. PĒq, Á»viP CŸjavāÁVzĀ CĒĀ°āU¼Ēā F, AāzĒU¼ā āĒĒP z°v-ŠAqÁiĀ, Á»vi PnPĒvā. ŠAqÁiĀāŠzĀ C, āiĀĒ āā, ĀiĀ «gāzĀ °ĒāgāĀāV, āiĀdz āā, ĀiĀ DāĒĒĀU ŠzĀāuAiĀ ŸQāiĀV, CzĒāzā āĒĒāzāāāV, āiĒāāV Ā¼zĀ āwvā. ĀāiĀfP PĀ¼f āvā, āiĀĒvAiĀ D±AiĀU¼āĀĀPĒEqā gZĒiĀz z°v-ŠAqÁiĀ PĀz PxU¼° Ÿw° ĒĒāPāz °@ā zāU¼ā.

āiĀdz ««z, gU¼z ŠAz E°AiĀ ĀRPg MĀ D±AiĀā dĒŸgāÁVz. ±vāiĒU¼ ±ĒāμAiĀĒā, C, āiĀĒvAiĀĒā Pāq E°AiĀ ĀRPĒ āĒĒ, ā°vā±U¼z °ĒāgāĀz °Ē, D±AiĀU¼Ēā °ĒĀgāāzā ŠAqÁiĀ PxU¼ ŸāĀR, ÁzĒiĀVz.

P.Ī.ŸĒtđZAzvd¹Ā Cāg **CŠZĒjĒ ŸĒĒ.Ā!** ĒāPĪ «zĀiĀ °Ā¼ ŠAqÁiĀz ĀvĒĒā vgz Lw°Ā¹P PxĀ, P@Ē. ĀāiĀfP, āā, U¼Ēā, ĀāzāV, PĀvPāÁVzĀR@ Ÿr, āā° vĀd¹AiĀāgā 1z°, gĀ.

vŠgĒ Px vĀd¹AiĀāg Ÿ¹zĀ PxU¼ĒĒā. F PxĀiĀ°, vāvĀvgz CĀPāg±āiĀ zŸđ āvā PĒĀiĀžz°, ĀĀ PĒĀUāā āĪQāiĀ ZqŸrPāiĒĒ



¥juÁ^aÁPÁjAiiÁV aw¹zÁg. ©nÁµg PÁ@z° P@,Pí,Áj,a,°¹,ÁvAvóí ŠAZ ÉAvg
 □^aéVÉÁZÁU ¥ÉÉIUÁV ¥gzÁqÁ^a vŠg±nAiÁ zÁgÁt av F PxAiÁ° ^aÁErŠA¢z.
 °AqwAiÁ PÁ°U UÁAiÁ^aÁV zÁ²Á Oµ¢U½Az ¥AiÉAdÉ^aÁUz PÆ½v °ÁU^aÉÁ Pvj¹
 °ÁP@Á vŠg PíÁPgÉÁ ^aÆg°ÆPÁ °Á,iz ^a,Á^aÁUÁVÁÉ. C^aÉ □^aéWÁiÁ °t^aÁÉÆÁ PÆEU
^aÁdÆGÁUÁvz. Dzg °AqwAiÁ,Á«□Az ^aÁEB,Á,íó^aÉÁ,Á¥Etð^aÁV P½zÁPÆAq
 vŠg°U FU Czg° D,Q-Á@. v°¹Á-Ág E¥vóÉzÉAiÁ,ÁvAvóí ¢ÉÁZguAiÁ °SP
 □^aéWÁiÁ °t¢Az PÆqÁU C¥ÁQ¹zÁU vŠg “ÉÉí ¥AqÁ zÁqÁ J@ ŠgPÆ½,Á«Á” JAZÁ
 °Á½¢qÁVÁÉ. F ^aiÁWÉ°AiÁ F PgÁ¼ ^aiÁ,íAiÁ PÁjvÁ C^aÉ ^aiÉÉ ¥w°íÉ ^aiPÁÁUÁvz.

QgUÆjÉ UaiiÁ½U½Á vÁd¹ÁiÁ^ag EÉÆiÁZÁ ^aÁ°v Px. QgUÆjÉ° ÉqAiÁ^a
 MAZPÆAZÁ,ÁŠAZ«gz JgqÁ WíÉU½Á PxAiÁ° °ÁnPÆ½^a,^a,íU½U PÁgt^aÁUÁv^a.
^aÆz@ÉAiÁZÁ UÁ^aÁ,Á^ap ^aÁvÁ CÉ¢Pív^aÁV °AqzAUrAiÁ ^aiÁ°ÁP ±AP¥,gPÁgz,ÁAz
 °Á,ÁAiÁz AiÉAdÉAiÁ,Áz°ðz° °½AiÁ° eÁwÁiÁ ^aiÁ^aÉ,Á °Án,Á^aiÁzÁ. JgqÉAiÁZÁ
 PÁ½ÁUÉqÉ °Aqw ÉÁU^aÁ ÉAŠÆzj ¥ArvÉÆqÉ Nr °ÆÁV C^a□Az ^aÆÁ, °ÆÁV ^aÁv
 °½U ^aÁg½z,Áz°ðz° ÉqAiÁ^a ¥AZÁ-Áw. Ezg°AiÁ^a ±AP¥É ¥^aÁAR ¥Áv«z. F
 JgqÉ,Á,íU½ÆÉ ¥j°j,Á^agÁ zÁÉ^aÉ ÉÁvz° QAií²@gÁVgÁ QgUÆjÉ
 UaiiÁ½U½Á. zÁÉ^aÁ H jÉ JZv ^aÁ»¼. H jÉ ^aÁÁU: °AU,gÉÁ,ÁWn,Á^a ±Q C^a½Vz.
 vÉí,ÁWíÉ-ÁAz QgUÆjÉ° ¹Á «^aÆÁZÉAiÁ P°½AiÁÉíÁ H ¢¢qÁVÁ¼ zÁÉ^aÁ. PÆEU
 C^a¼ ÉÁvz° °AU,g@,Áj ±AP¥É,ÁA¢ CAUrAiÁÉíÁ ÉÁ± ^aiÁqÁVÁg. D ^aÁÆ@P
 ¥ÁgÁµ PÁA¢v ^aiÁ,íAiÁ «gÁz¹ v^aÁ ¥w°íÉAiÁÉÁ zÁR°,ÁvÁg. CµÁ C@ °Æ, ^aiÁ,íU
 ÉÁA¢ °ÁqÁVÁg.

,Á»vz,Á^aiÁfP d^aÁ-ÁjAiÁ SÚí Šziv-ÁAz CviAv,±PÁV ŠgAiÁÁwgÁ^a
^aÁvÉŠí PxUÁgggAzg zÁ^aÉÆg ^aÁ±°ÁzÁ^a. E^ag PxU¼° ¥w°íÉAiÁ CA±
 C¥éÁ¥É^aðPÁz ¹wÁiÁ° ^aiPÁÁUÁvz. U,gÁ, C^aiÁ,, qÁÁŠgÁ ŠAZÁzÁ PxU½Á EzPí,µ
 □z±ðÉU½ÁV^a.

^aÁÉvð^aÁz CÉÁ^a ¥¥AZ^a¢AZÁ vÉí-Á,Á^aiÁfP ^aÁ,ávU½ÆqÉ zÁ^aÉÆgÁ
 PxU½° DÞw ¥qAiÁ^a jÁw °ÁUÉ ŠzÁQE PÁ¼f ^aiPÁÁUÁ^a PÁÁ E^aíU½AzÁV EzÁ
 MAZÁ,ÁxðP Þw. zÁ^aÉÆg PxU½Á,Á^aiÁfPÁz, DyðPÁz C,^aiÁÉvU½ÉÁ aw,Áv^a;
 d«ÁÁÉÁjÁ ¥zwÁiÁ AiÁd^aiÁÉg ±ÆÁµu ^aÁvÁ PÉAiÁðU½ÉÁ «zÁ^aAv °jdÉ AiÁ^ap
 PÁAwPÁjÁ ¥w°íÉAiÁÉÁ, C«zÁ^aAv °jdÉ ^aiQU½ C,°ÁAiÁPvÁiÁÉÁ ¥zÁÉÁV
 St,Áv^a.

z°v,Á»vz°,gWzÆqÉAiÁ ¥w°íÉAiÁ P@É É^aÁÉÁ^aj¹PÆ½Ávz. zÁ^aÉÆg
^aÁ°ÁzÁ^ag ÞwU¼° ¥w°íÉAiÁ z^a J@Æ ^aÁgÁí^aÁV GPÁ^aí¢@. vÁ^aí ±ÆÁµuU
 M½UÁVzÁ^a JAS CjÁ^a E@z, Ez@ zÉ^a□AiÁvÁz C^aÁgí ¹w JAZÁ MíPÆAq,
 DzíJAz ÉÆÁ^aÉÁ «¢-ÁRz ^aiÉÉÁV CÉÁ^a«^a,^a,^aÁgÁrzg AiiÁgÆ PÁ½^aÁj@^azÁ
 w½¢gÁ^a ±ÆÁívg ^aÁEB¹wÁiÁÉÁ CviAv Éd^aÁV »r¢íÁgÁ zÉíPÆÁÉ EzÁ.
 ¥w°íÉAiÁÉÁ ÉÁgÁV,ÁPÁw,Á^a ^aiQU½UÁU°, WíÉU½UÁU° ¹Á«ÁvÁUzÁ MAZÁ
 jÁw-ÁAz EAx ^aiQ WíÉU½VAv ¥w°íÉAiÁÉÁ,°ÉzÁiÁ,Á^aÁzÉU ©íPÆqÁ^a
 gZÉU½ÁVÁ C^ag PxU½Á. Á^aiÁÉí^aÁV ÉÁg ¥w°íÉAiÁÉÁ ¥w°íÉ,Á^a ^aiQU½Á ²Ptíz
 -Á^a ¥qzÁ °Æ, «ZÁgU½U v^aÁÉÁ vgzÁPÆAq^agÁVgÁVÁg.



U, gā PxAiā ÉÁAiāP P½eÁWaiā P½aUōz aīQ. Dzg Dv «zÁiāAv. CāÉ° ¥e Ez. vāā dÉÁAUz, vāā PÁIÁŠz, vāā °½Aiā Evgg/EAČU FU CāDU Cxō¥/Etō , ASAz , ÁziāAUāw. PÁgt DzāP 2Pt aāvā °Áoi , A¥Pō g/É!z °E, Cjāi. °ÁUÁV F PxAiā° WμđuAiiÁUāaīzā vāāÉā ±EĀŋ, āwgā UĒqEAX a g/EAČU aīÁvā°; vāā , A, āgz »jAiāGāz Cā, zĒqāÉAX a g/EAČUĒ DUāvz.

U, gā PxAiā CāÉ° z°vg C, °ÁAiāPvAiā J@ @PtU½E Eā. Cā¼ aāUāU , Á@ P/Engā UĒqEĒ zĒq G¥PÁgāÉā aīÁrgāaīČ@. °E@ Cq<IĀP/EAqā ŠrAiā aāā °t P/EngāvāE. Dzg/É CāDU UĒqÉ° C¥ÁgāÁz «±ā, «gāvz. “zāAx a g x aZāĒā μāg?” JAzā aāUāU P½āvā¼. Cμā C@ “UĒqgAvāE JzāGā °ÁQP/EAqg Éāā ŠzĀP/Ézā °ÁiU” JAz/É P½āvā¼. DU Dv “FU Éāā ŠzĀQzāā?” JAS ¥±AiāÉā P½āvāE. ±EĀŋvg JzāGā DAIā CO¥ÁAiā aāAvāz , ÁvAvāz °PĒĀ P½zĀP/EArgā z°vg ¥wČAiiÁV Dv P½āā F ¥± UAČĀgāÁz ¥wĒ IÉAiāÉā zÁR°, āvz. ¥wĒ IÉ QAIāAiā° ¥j a wōvāAUzā Egāaīz jAz CāÉā C, Áziā AiiāvÉ CĒā “« , āvāE.

aījP/EAq a gā Px MIā ¥juāāz° ¥wĒ IÉAiāÉāAIā aīÁqā gZÉ. F PxAiā 2ĀŋŋP ¥EiqĒ ±EμU Mrz , āxō g/EPāvz. F PxAiā ÉÁAiāP ČĀg aāUÉāzg/É μŋIaiāE@. Āg °nAiā , Á°ÁPÁg/ÉŠ CāÉ °Aqw @QāAiāÉā PtQzÁU , ÁPμā GUāVAiāā Dv CzÉā ¥wĒ n¹gāvāE. DU EzĒ ČĀgE ¥wg/Éz QI¥ vEĒ °AqWaiā e/ÉvU °EACgāā ĒAVP , ASAz UĒwz/É CzÉā ¥wĒ n, Āg. CzP aāRĒ PÁgt Dv vEĒ zĀagAwgā ‘CĒĒ °ÁPā zt’Aiiāz UĒqg aāU JASzP. Dzg °Aq PĀrzÁU aīÁv CzÉā ¥wĒ n, āvāE. Dzg D ¥wĒ IÉ aĀEP ¥wĒ IÉAiāUāvz. **DyōP ¥gāā@ASÉ āvā @Qā QI¥ÉĒā , @° āv MĒP/EAāāzā ČĀgE μŋIaiāvU PÁgt āUāvz.**

zĀāE/Égg ‘qĀASgā ŠAzāzā’ Px DzāPvAiā DUāĒEČAZÁUā DāāAvgāEĒ, Uāāāt ĀgWāAiā fāāEz° GAMāz ¥@IU½EĒ, DzāPv °ÁUĒ , ÁA¥zāĒāPvU½ , AWμđU½EĒ MāāĒā aw, āvz.

, āaiāGā JA°vā aāEU½gā MAZā , t °½U qĀASgā g, aāAd/ÉGÁUāvz.. D H jÉ ¥mā@juā D g, Aiā PÁAmāP zĒgAiāāvz. ¥mā@gā g, aīÁr¹ G½Aiāā °tz° zĀā, ÁE Pn, ĀPAZā μzōj¹gāā , ĀČĒ JĒ Pq °Šāvz. Dzg J, °agU NČgāā D H jÉ ±ASā, aīāz, gād, @PāājU ¥mā@gā , Pāōj °tz° G½¹ zĀā, ÁE H fđvUĒ½, ĀPAZā GzĀ²¹gāāzā , Pāōj °tz zĀgā¥AiāUāv PĀtāvz. DzĒjAz CzÉā vqUIĒĀPAZā , ASAC¹zājU ¥wPAiā aĀE@P ¥v ŠgAiāāvāg. ¥vāÉā ¥mā@gā NČ PAqāÁUāvāg. ÉāAiā¥AZāĒā , āgāvāg. E° Uāā, ĀPāz aāRĒ , AUwAiāAzg °½Aiā ±Q PĀAZāāz ¥mā@gā ¥±U UājAiiāUāwgāāzā. °½Aiā ¥gA¥gÁUv , āaiāfP °ÁUĒ , āā, wP ¥āvz PĀAZU½ā μzāEāv C¹GUĒĒĀgA@¹ā. MAZā μuāDaiāP , AWμđP D ÉāAiā¥AZāĒā , āQAIāUāvz. ¥wPAiā° PÁUz ŠgzāzÉā ČĒāV MĒP/EAāāzμā C@, D °āqāUgā vāā avōEaiāEā Š»gAUāVAiāā Hgāāāz , āyō¹P/EAāvāg.. ¥mā@gĒā Éāgāv ¥zĒ, āvāg. D aĀE@P vāā ¥wĒ IÉAiāÉā Éāgāv zÁR°, āvāg.



oÆĀt ¥ÆĀ°Ā, ĩ fĀ¥ÆĀ° v®Ā NqĀvĀE. PxĀiĀ CAVĀ vÆĀ aĀAUĀZ ErĀ aĀ, ĀiĀEĀ
ZĀZĀv, vĀiĀµ aĀiĀqĀv, ĀUĀvz. °ĀUĀ aĀiĀqĀv aĀ, ĀiĀEĀ° µgĀPj, Ā^a jĀw CzĀvĀvz.
ĀiĀiĀfP ±ÆĀµuĀiĀ «gĀZĀ ¥wĀ ĪEĀiĀ zĀ, Āj, Ā^a ¥ĀiĀv SgUÆgĀ
gĀĀZAZ¥Eag PxU¼°z. PĀiĀ Cag, vĀiĀvĀZ Px. zĀrĀiĀĀ^a ±Q aĀvĀ AiiĒEz
S®U½ZĀU ztĀiĀ PĀĀZ D, ĀiĀEĀ° µgĀPj¹z ZĀ SgUĀ®z PAUĀ® CĀ, ĀiĀ°
C, °ĀĀiĀP¼ĀV PÆEUĒ vÆĀ J®Ā®E °Azgz aĀĒiĀEĀ° Āq®Ā µzđj¹zĀU zt Cag
SgUĀ J®Ā®E °Azgz aĀĒiĀEĀ° µgĀPj, Ā^a Px PĀĀ. ĀiĀdz SgĀS°zg CAVĒE
avt °ĀUĒ °uÆS¼ ¥wĀ ĪEĀiĀ zĀ F PxĀiĀ° EĀijĀwĀiĀ° C®ĀQ ¥qcz.
Cag EEĒiĀZĀ Px, 'ÆĀĀ'z° aĀĀ®Uđz agĀ P¼auđz ag ±ĀĀEĀ° G¥ĀiĒĀvĀPÆEqE
Cag zĀrĀĀiĀ ¥w¥®ĀEĀ° PÆq®Ā, vĀ-Ā, ĀĀĀU ±ĀĀP ¥wĀ ĪE D, ĒĀn, ĀĀzEĀ°
«Āj, Āvz. aĀEU®, aĀiĀr SĀPĀĀ aĀĀZĀQĀiĀ, AS¼ PÆq®Ā gĀµ¥±¹ «eĀv SĀĀfĀ»
vĀ-Ā¹zĀU vÆĀ zĀrĀĀiĀ ¥w¥®PĀ PĀZĀ, Ā, Āz aĀĀZĀQ gĒĀ¹ D gĀµ ¥±¹ ¥®PĀEĀ°
°ÆvĒiĀĀ PgiĀ PÆĀrU ©, ĀPĀĀzg aĀE®P vÆĀ ¥wĀ ĪEĀiĀEĀ° zĀR°, ĀvĀ¼. SgUÆgg
ĀĀI gUĀ½, MAZĀ PĀqz Px, CĀEĀ E¥ĀĀ, P PxU¼° zĀSđ® ±ĒĒĀvgĀ PÆEUĒĀ ĀJZvĀ
¥wĀ nE, ĀAPĀwPĀĒE vĀĒEĀ° vĀĀ, ĀĀĀ¹PÆĀĀ avU½^a.
z°v-SĀqĀĀiĀ, Ā»vĀz PĀ®WĀz° Sgz ±ĀAvĀg, g 'Ā®ĀĀ' °ĀUĒ ZEĀt ĀĀ°ĀPĀgg
'vĀĀiĀ', 'PĀvz° PĀz'agĀ' ±vĀiĒEU¼ aĀEĒĀqzĀ aĀvĒĀqĀvĀg. Ā¥zĀĀiĀĀEĀ°
QvĒEUZĀ fqĀUnz PÆ¼PĀ aĀ, ĀĀĀZ °ÆgSgĀvĀg. vĀĀ AiiĀvĒU PĀgtĀEĀ°
w½zĀPÆEqĀ °Æ, zĀjĀiĀ° aĀĒEĀqĀiĀvĀg. ĀiĀdĀiĒE, Ā, wĀ µĀĀđ¹z, ĀĀiĀfP ĀĀwĀiĀ
«gĀZĀ SĀqZĀ °Æ, ĀĀwĀiĒEzEĀ, ĒĀ, ĀvĀg. »ĀU PĒq, Ā»vĀz Āg Āg PĀ®WĀU¼
GzPĒ ¥wĀ ĪEĀiĀ ©EĀ aĀĀzjU¼Ā C®ĀPĀvzEĀ F aĀĀ°E P®ĀĀ ¥Āw®P PxU¼Ā
«Āj, Āv^a.

DPg °ĀUĒ ¥gĀĀ±đE UAXU¼Ā:

1. C±ÆĀP, n.Ā: Ā»vĀ, Āz°đ
2. DĀĀEg, f.J, ĩ: PĒq PxĒ, Ā»vĀ: t Px
3. PjĀUĒq ©ĀZE°½: ĀPxĒ
4. PĀA.«Āg°z¥: qĒĒĀĀ aĀwvg PxU¼Ā
5. P.PĀ±ĀĀĀđ: ĀĀ®EP
6. P.Ā.¥ĒtđZĀz vĀd¹: CŞZEjĒ ¥ĒĒ, ĀĀ, ĩ
7. P.Ā.¥ĒtđZĀz vĀd¹: QgUĒjĒ UĀiĀĀ½U¼Ā:
8. Vgr UĒĀĀZgĀd: ĀĀU «ĀĀ±đ
9. ZzĀgAU: ±ĀzĀĒE
10. zĀĀEĒg aĀ°ĀzĀĀ: zĀĀEĒgĀ
11. Ā.®ĀPĀ±: EĀE®
12. SgUĒgĀ gĀĀZAZ¥: Ā, wĀ: ±ĀĀ aĀvĀ, ĒdE²Ā®v
13. SgUĒgĀ gĀĀZAZ¥: PĒq, Ā»vĀz° EĒĒĀE EĒU¼Ā (PĒq, Ā»vĀ ¥ĒEgĀ
aĀE°ĀPgt aĀĀ):
14. SgUĒgĀ gĀĀZAZ¥: ĀĀI gUĀ½
15. S, ĀgĀd PnĀĀ: DU, MA°vĀ
16. S, ĀgĀd PnĀĀ: PĀgĀĒĀ
17. Ā, Ug°½ gĀĀĀt: UdđE



Uttara Ramayana Adharitha Kannada Kavyagalalli Seethe: Ondu Vivechane

-Usha

Gvəgə qÁ^aÁiÁÁiǎ t Dzəj və pÁÈÁqə PÁ^aÁiÁÁiǎ^o 1ǎVÉ: MAZǎǎ «^aÉǎZiÉÉ

- Γρά

ÀA±ÆÃZÆÁýð,
J,ï.«.¡. PÆÆCqÀ CzÀÀÀÈÀ ÀÀ,É,
aÀÀAUÀ/ÀÆqÀÀ «±Æ«ZÁq®ÀÀÀ, aÀÀAUÀ/AUAUÆÆÅwæªÀÀAUÀ/ÀÆqÀÀ

! ĀpÉ :

eAUwPÀ ,Á»vázà ° aAA°ÁPÁaAì ¥AgAYAgUÉ Ç¥ãð Ew°Á,À«zé. ``ÁgawÁíÁÀ ,Á»vázà °
,Á,ÁovÁ ,Á»vázà aAAE® aAÍÁVÉ ,ÁÉZÀ °zÁ,j gÁ¶ÍÁÁÀ aAA°ÓPÁÁUAVÁZÁ gÁÁÁÁÁÁ t aÁVÁÁ
aAA°Á``ÁgAvázÁ PÁÁÁUAVÁÁ G½zÁ ``ÁúEÁíÁ ,Á»vÁPÉ aAAE® ¥EgUeÁíÁÁVZÉ. DÇPÁ« aÁ°°AQ
aAA°A¶ð «gÁavá aAA°Á PÁÁÁÁÉÁ gÁÁÁÁÁÁ t. gÁÁÁÁÁÁ t gÁÁÁÁ ZÁjvéæDVZÁgAE PAXÁ
ÉÁÁÁAQ 1ÁVEÁÁÁ ¥ÁVáE ÁÁÁE ÁZÁgÁ. aÁ°°AQ PÁ«ÁEÁÁ gÁÁÁÁÁÁ t PÁÁÁZÁ SUEÍ ºEÁ½gÁÁÁÁVÉ,
“1ÁVEÁÁÁ aAA°AvágÁÁZÁ ZÁjvéæÁÁ gÁÁÁÁÁÁ t. gÁÁÁÁÁÁZÉ 1ÁVE¬Á®, 1ÁVE¬ÁRZÉ gÁÁÁÁ®.
gÁÁÁÁÁ QÁWðÚÉ 1ÁVEÁEÁÁ aAA°Á ZÉVÁEÁ. CzÉÁ 1ÁVEÁÁÁ SUEÍ “1ÁVÁÁÁ: ZÁjvá aAA°Aví”. 1ÁVE
ÇÁgÁÁÁ, aAA°ÁVÁVÁÁ, ÁVÁÁÁUAVÁÁ C®ZÉ «ÁgÁÁÁVÉ, ÁCÁÁÁ, ¥EÁÁÁÁÁ¬, PÁgÁÁUÁÁÁ¬,
,Á°ÁZÁÁÁÐZÁj t, ¥ÁÁÁÁÁVÉ, ÁN¬Á®ZÁ ,ÁZÁÁ t JAcZÁgÉ. ÁÁVÉÁÁÁgÁ° ¥ÁWáÁÁÁÇ
¥ÁgÁEÉÁVÁÁÁ UÁ t ÉASÁZÁÁ ``ÁgawÁíÁÁ ÉÁÁ®É. CAVÁ°¥ÁWáÁÁPE ¥ÁÁÁÁ ÁZÁÁÁÁ “1ÁVE”.
dÉAPÁ aAA°ÁgAd 1ÁVÉÚÉ gÁÁÁÁÉÁ VÁPÁ áÁgÁEÁZÁÁ ÁZÁj 1 M¡,ÁÁÁÁUÁ 1ÁVEÁÁÁ SUEÍ “EÁíÁÁ
1ÁVÁ..... ÇEÁUÁVÁ ,ázÁ (ÁUÁð 73) EÁÁÁÁ 1ÁVE, ÉÁEÁÁ ÁÁUAVÁÁ, ÁEÁÁ PÁgÁÁUÁÁÉ´Á
MqÁÉÁrÁÁÁVgÁÁVÁÉ. F ÁdÉÁVÁEÁÁÁ 1ÁPÁj,ÁÁ, CÁÁVÁ PEE»r, ÁEÁÚÉ ÁUÁVÁV ``ÁPÁVÁV
ºEÁgAWÁÁÁUÁÁVÁÉ. aAA°Á``ÁUÉÁíÁUÁÁVÁÉ. ÁZÁ EEÁÁÁVÉ ÁEÁEÁÁÁ ÇEÁÁ Áj ÁÁVÁVÉ” JEÁÁÁVÁgÉ.

GvÀgÀ gÁªÀÁÀÀÀ t DzÀjvÀ PÀ£ÀÒgÀ PÁªÀÀUÀ¼À ° 1ÃVÉ

[illegible]



AIAVAEAAIAA°DAAEEdIAVEA gAAAEVAAVAAAEAAV dEAA, dEAA "AAE«AA AUAAOZA IUAJAAIAI,
 JAZAA °EtEAA aEE"AA«APaj 1 1AVEAIAA YAAVEE aAAVAA fAAAAWPE VAAAC «CEAA EE EUAA AAEOPA
 VAA: PAEWUAA° PAAQA PEAArZAG. PAEQAZA° 1AVEAIAA YAAVEE AAACAA PAAjVAA CzAAIAEAAUAA VAA"AA
 EAQECZE. DzAG aA°AQAA GvAG gAAIAIAAtAAACAA Dzaj 1 gAAVAAZa PAEQAA PAEWUAA° 1AVEAIAA
 YAAVEE «CEAA EE EAA° YAAAC 1ZAG.

[illegible][illegible]

gÁ^{aa} EzÁ^é D^éEAzÁ^aÁUÁAwÁ^á DzÁ^é EAzÁ^á D ÁUÁ WÁn,ÁzÉÁ^éÉÁ→ÁVÁ^é JAzÁ^á
PÉ^éEgÁVzÁUÁ C^aÁVÁ^á 1wÁÁÁÉÁÁ^á PÁ« “ÉÉ/EAzÁ Á^éÉÁzÉÁ^á aÉÁ^é É ÁAwUÉ^é ©zÁ^éÁÉÇ^é ÁÁÁÁ^á” JAzÁ^á
a^át^áđ^á1zÁ^é. J^éÁ^éÁÁÁ^á Á^á»¹ aÁÁÁzÉ^á aÁÁÁPÁÁ^áÁÁÁgÁgÁ^á gÁWÁÁÁÉÉÁ^é©¹Á^éEAzÁ^á Á^áÁ^ézÁ^é KÉÉzÁ^á
GvÁj,Á^é JAzÁ^á PÉ^éEgÁUÁ^á D^éPÁÁÁÉÁÁ^á PÁr Á^áÁ^é PÁVÉzÁÁ^éÁ^áÁÁ^á Á^éÁ^éÁzÁ^é ÁzÁgÁ^é VÁÉÁÁÁ^á
Á^áÁzÁ^á1PÉ^éEAqÁ^á Á^áÁÁÁ^á QÁwóUÉ^á zÁÁw SÁ^áÁ^éÁzÁ^á »AdjzÁ^áÁÁ^á 1ÁVÉ.

¥Àw(«) gÀ»vÀ ZÁj vÀæ° gÀWAA
 ¥ÀWUÉ aÉÉÉÀvÀ®AVÉ 1ÁvÁ
 ÁwAíÁÁ±± ÁÁÖZáÁÁÖZÁj tAíÁÁV aÁwð ÁÁvÁ



±ÄÄW «»vÀ vAQÄwĐ äÄ»äÄÁA
ZÄv ÄÄÄÉÆÄ°ÄgÄ·ÁÄÄ
UÄ©ĐvÄ äÄ°ÁPÄEWÄIÄÄAvÉ (29-12)

1ÁVÉAIAEAAI ‘±AA»»VÀ VÁQÁWð AÁ»»AÁÁAvà AÁÉEÉÁ°AgÀ ÁÁAgÀ, À U©ðvÀ
 AÁ°ÁPÉWAÁÁVé’, “ÁE«ÁVÁ-À ¥ÁEÁVÁZÁUÁ AÁUÁVÁEAAI D®AV¹ 1ÁVÉ “ZÉÉÁµá°AgE”, ÁPÁVÍ
 ®QÜÁ JAZÁÁ dÉAgÀ AÁE®PÀ PÉEAqÁqÁÁÁ°ÁÚÉ AÁÁr gÁWÁ¥ÁWUE EÉVÁ®VÉE, Á°ÁZÁÁÁÐZÁj t
 JEÁÁVÁ gÁÁÁ-1ÁVÉAÁÁgÁÁ ®QÜÁ ÉAgÁÁÁÁ t gÁ CÁVÁgÁÁEÁZÁE ¥ÁÁÁ 1Á ©EMÁÁÁÁÁ JAZÁÁ
 ZÉÁÁVÉUÁÁÁ ÁÁw, ÁÁÁÁ AÁE®PÀ 1ÁVÉAÁÁ ¥ÁVÁE MvÁÁ ¢ÁrzÁGé. E° 1ÁVÉ ¢Á¥Á vÁÉÁj zÁÁ
 TÉEÁPÁPÉ “ÉÁPÁEÁÁÁ PÉEqÁÁÁÁÁ jÁw, vÁÉÁUÉµÁÁ PÁµÁ SÁZÁGÁE gÁWÁÁÁUÉ C¥ÁÁÁÁÁÁÁ SgÁÁÁÁZÁEÁÁ
 CÁVÁÁÁ ÁÁ», ÁÁÁgÁZÁ, Á°ÁZÁÁÁÐZÁj t ÁÁÁV gÁÁÁEÁ EZÉÁÁÁVÉ ÉAQEZÁÁ ÁwÁZÁÁÁÐ
 ¥Á®EÉÁÁ° AÁÁZÁj Jª¹ZÁVÉ.

[illegible][illegible]



aAAa aEzA@a ¥aE aAr CaAa ±AZAVeAAEAA zAQ¥Ar,AAaAZA, C° 1ÁVéAAEAA CaApeE, C@aEÁ, dEAPAAvé, ¥AJ±AZÉ, 1ÁV aAv ¥AAE, JAZAA Á°ÁQAIAA AAe@PÁ OÉEUÁ½,AAaAZA 1ÁVéAA 2ÉEÁEAWAAEAA ,ÉEUÁ,ÁV a tð1zÁgE. aAAaAaA aAwAaZa gAAaOuE “Aw 1ÁAAAVaA t” JASaAZA ±AAIAÁÁUAVAZÉ. dEÁJUÁV ±¥AxÁ aÁAQÁEAZA OÉ½zÁUÁ DPÉ ¥AWIAÁ EZÉUÉ VÁEÁV ±¥AXÁ aÁAQÁVÁE. D ,AAAAAZA° ÉÁjSmEAAa I Á dmÁ`j vAvÁVzÁ 1ÁVéAAEAA PAAqAA ,ÁÉ ‘OÁ’ JEAAVÁZÉ. ,ÁÁDÉAgAA vAAÁ vAAÁEÁ “gAWAA¥AWUÉ PÁgÁ 2ÁAAAw ,ÁE1zÁvÁ¥AAUa” JAZA OÉ½PEEAqAgAA. 1ÁVéAA 1wAAEAA PAAqAA J@JUÁE PAgÁUÉ GQ SgAAÁVÉ PÁ« awAzÁgE. ¥AgA¥AgAµAgEAA P t wAAÁE ÉEÉAgAZA 1ÁVé,

qÁWàà£à®zÉ ¨ÉÃgÉ ¥ÄÄgÄÄµÄgÄ

ÉÉÉ«ÄgÄÄQ PÀAgÀj zÉÉÁzÉÆgÉ ªÉÄÄ¢ ºÄzÉÄ«||

vÀªÀd oÀqÀzÉÃ±ÀzÉÆ¼ÀUÁ£ÀÄ

zài « 1 zài 4 - é zài yuán qǐ !

«^aÀ j¹ z^{ÄÄ}½ z^{ÄÄ} , Àv^ÄÀ^aÉAz^ÄÄ^Ä ^aÄÄ/Ég^ÄÄPÄ t A^ÄÄZÄ° (18-46)

D ,ÀAzÀ`·`ðzÀ° aÀÀÀ¤dEjAZà ¥AwæÀÉvÀtAgEÆÀaa t JAZÀÀ °E/EA¼½ 1PÉ/EAQ¼VÀÀ. C° 1ÀVÉ ¥Aj±ÀZÉAEÀEÀZÀÀ ¢©ðVÀVÀV `ÀEvÁ-ÀÀÀÀ C;PÉ/EAQÀÀ vÀÈÀ° CqÀVPÉE¼VÀÀVÀVÉ. E° 1ÀVÉ VÀÈÀZÀ@ZÀ vÀ!UÁV PÀUÀÀEÀÀÀ CÈÀÀ`À«¹, CPAVÀAQ t ÀÀÀVZÀQÀ/E CÈÀÀÀÀÀEÀPÉ UÀÀj ÀÀÀV, PÉ/EEÉUÉ CzÀCÀÀ ¢ªÁj¹PÉ/EAQÀÀ vÀÈÀ fÀªÀÈÀ PÀAQÀÀPÉ/EAÀÀÀ 1ÀVÉÀÀÀ ¥ÀVæªÀÀE® PÀEWUÉ ,ÀNÀÀÀAwZÉ.

[illegible]



“ÀÆ«À,ÀÆVÉ “ÀÆ««gÀ
 aÀZÀZÀÆÀÀ UÀaÀÀa 1ZÀÀÀ
 PÁt 1ZÀ VÀÀgÀÀ aÀÆÉ UÉZÀaÀÆVÉ (34-45) 1ÀVÉÀÀÀ ¥ÁVÀaÀÀ awàzÁgÉ.

ÉÆÀ,ÀÉ CAÀÀÀ ±Á1À (1854 PÁ®) ±ÉÀgÀgÀÀÀÀÀÀ t ¥ÀZÀ ¥ÀÀgÀt ¥ÉgÀt PÀ
 ¥ÀgÀÀ¥ÀgÉUÉ ,ÉÀjzÀ PÀÆW. 34 ,ÀAÇUÀ½AZÀ 1340 ¥ÀZÀÀUÀÀÆÀÀÀ M¥ÀUÉÆArgÀÀa aÀZÀØPÀ µÀ1ÇÀÀÀ °
 ,ÀÀ,ÀÀVÀ «À2°Æ ÉÀqÀÀUÀÆÀÀqÀ PÀÆW. PÀ« DgÀÀ“ÀZÀ ° 1ÀVÉÀÀÀÆÀÀÀ ZÀÀ«øÇ JAZÀÀ ZÀÀBRQÀqÀÀ
 aÀÀrZÀgÉ, CAVÀZÀ ° ¥ÀW-,ÀÀVÀgÉÆqÀÆÉ ,ÉÀj ,ÀÀR¥ÀqÀÀa jÀWÀÀÀ ° awàzÁgÉ. UÀ“ÀðÀÀWÀÀÀZÀ
 1ÀVÉ ‘ØÉÆ,À aUÀÀjrzà’ aÀÀZÀ«ÀØVÉÀÀÀÆVÉ ZÀÀVÀ aÀÆÉÆÆÀ°ÀgÀ ¥ÀWØÀÀÀÀÆVÉ PÀAUEÆ½1ZÀÀÀÀ.
 “ÀÀ«UÉ SÀZÀ ±ÀQ ,ÀgÀÆ!t, DPÀAPEUÀÀÆÀÀÀ °ÆÆAÇZÀgÀÆ CÀÉ®aÀÆAÆ aÉÀnØVÀ ÒÆÆPÀ aÀÀÆÉ
 JAZÀÀ aÀtð1ZÀgÉ. gÀÀÀÆÀ aZÀðgÀÀÆÀÀÀ ®PÀtØAZÀ W½ZÀÀ 1ÀVÉ aÀÀÆbÉðÇZÀUÀ “PÀZÀ
 PÀ“ÉÆðÆÀÀ ,ÀgÀ½ÆAÆÇ-Á” ÉÀÀr Q«UÉ ÇZÉÆqÀÆÉ, CAZÀgÉ Q«UÉ PÀZÀ PÀÇtZÀ ,ÀgÀ½ÆÀÆVÉ VÁ-À
 “ÀÆ«ÀUÉ ÇZÀÀÆVÉ” JAZÀÀ PÀ« aÀtð1ZÀgÉ. VÀÀgÀÀ aÀÀÆÉÀÀÀWZÀÀ aÀ°ÀQ DÀÀZÀ ° gÀÀÀÆÀ
 ,ÀgÀUÉ aÀÀqÀÀVÀ aÀÀPÀVÀ “ÀÀd «PÀÀÀÆÀÆVÉ ,ÀZÀÀ ¥ÀÆÆÀÀÆÀÀ PÀAqÀÀ »Vízà jÀW, “1ÀVÉ ¥ÀWÀÀÀ
 ZÉÆÆµÀÆÉ,ÀÀÀ ,ÀWÀÀÀ® DPÉ ÒÆÆPÀ aÀÀÆÉ” AÉÀa 1ZÀÀÆAZÀ PÀ« ØÆÆUÀ½ZÀgÉ.

G¥À,ÀA°ÀgÀ:

GvÀgÀ gÀÀÀÀÀÀÀ t PÀÆWUÀVÀ gÀZÀÆUÉ aÀÀÆ® aÀ°ÀQ gÀÀÀÀÀÀÀ t. ZÀÀÀð, CxÀð, PÀÀÀÀ,
 aÉÆÀPÀUÀVÀ «aÉZÀÆÀÆÀÀ GvÀgÀ gÀÀÀÀÀÀ t. “ÀgÀWÀÀÀÀ ÀÀ°Á PÀÀÀUÀVÀ ° MAZÀZÀ GvÀgÀ
 gÀÀÀÀÀÀÀ t ÇAZÀÉÀ 1ÀVÉÀÀÀ fÀÀÆÀ DgÀÀ“À. 1ÀVÉÀÀÀ ¥ÁVÀaÀÀPÀÀÆUÉ 1UÀÀÀ ¥ÁVÀaÀ °
 aÉÆZÀ®ÆÀÀÀ ,ÀÆÀ. 1ÀVÉÀÀÀVÀÀ DZÀÀð gÀÀÀ tÀÀÆÀÀÀ PÁtÀÀÀZÀ VÀÀ“Á «gÀVÀ. “ÀgÀVÀZÀ UÀ°À
 UÀ°ÀUÀVÀ ° 1ÀVÉ DZÀÀð ZÉÀÀVÉÀÀÀV EACUÀÆ ¥ÀÆf,À®qÀÀWZÀÆÉ. 1ÀVÉ ZÀÀÀð ±ÀZÀÀÀ
 ,ÀAPEÀVÀÀV, aqÀÆÀÆVÀÆÀÀV “ÉÀUÀÀÀ DgÀZÀ ZÉÀÀVÉÀÀÀVZÀÆÉ. “1ÀUÀÀ DgÀ ,ÀÀÆÆÀÀ
 ¥ÀgÀÀÀÀ ZÉÀÀVÀ ¥ÀWÀ” JAZÀÀ ÉÀAÇZÀÀ ÀÀ°ÁÀÆVÉÀÀÀZÀ 1ÀVÉ, GvÀgÀ gÀÀÀÀÀÀÀ tZÀ °
 ,ÀÇÀÀÀÀÀÀV Ç1 °ÉUÀV 1ÀVÉUÉ 1ÀVÉÀÆÀÀ ,Àn JAZÀÀ ¥ÀZÀÀ “ÀÆ«ÀPEÀÀÀ °j1, ÇÆÀ
 ÉÉÉUÀVÀ aÀÀÆ®PÀ awàzÁgÉaÀÀZÀÆÀÀ GvÀgÀ gÀÀÀÀÀÀÀ t PÀÆWUÀVÀ ° PÁtS°ÀÀZÀÀ.

¥ÀgÀÀÀÀÀÀÀ UÀAxÀUÀVÀÀ:

- GvÀgÀgÀÀÀÀÀÀ t - qÀ.1.±ÀÀVÀgÀÀÀ ¥ÀZÀ
- PÀÆÀqÀZÀ ° GvÀgÀgÀÀÀÀÀ PÀXÉ PÀÀÀUÀVÀÀ - qÀ.f.JA.,ÀgÀ,ÀW
- aÀ°ÀQ gÀÀÀÀÀÀÀ t - ®PÀt «gÀÆ¥ÀPÀ fÀ.2



avU¼ a, ÄaEÄ aä», Äa paä aÄE@vß SazZÄ, Á»viCaz JµEÄ Pq 1aia, Á»viz
z± gE¥U¼Av PátÄva JAZÄ 1aia Ew°Á, PÄggÄ UÄgÄw ÄvÄg.

«± avÆÄziªÄz DgA''z Ç£ÇAz@Æ J'Ä ,ðE²Ä@ av ozÄð±PgEÄ ,Ä»vi
PÄv DP¶ð,Äv ŠAÇz. ,Ä»vÄvP PëwUyÆ 1ªaiAUy° C¼ar1PÆArzjJaz@Æ P¼z
±vªiÆz° Z@Æav aÄÄRi aÆEgAdEÄ aiÄziªªÄv, GvÄ P'Ä¥ÄPÄgªÄv ''¼-ÄvÄ,
EzÄ CªjPPi aiÄv 1Ä«ÄvªÄUz duWÆ Evg ''ÄUU½UÆ ÇEÄiÄ,ÄªAxzÄ. GÇªÄÄiÄ
,gÆ¥ªÆ ÆqzÄPÆAQª eÄUWÄP 1ªaiÄ ''¼AiÄwziÄv, gÆ¥ÄAvG CxªÄ ,Ä»vªÆ
C¼ar1PÆyªaiÄzª ÄvÄ ©q°®. Šz°U Ezg ¥ªiÄt °ZÄv'Ä °ÆÄ-ÄvÄ. CPÄq«Ä
CªÄqiðUy ÇEÄ,Äg «± avÆÄziªÄz aÄ¶ðP CAQ-CA±UyÆ ÆEÄrzg, ,Ä»vi PëwAiÄE
C¼ar1PÆArgªaiÄzª aÄvÄ ''ÄPi D'Ä,ïE° Uz| avUyÄ ,Ä»vªÆ
gÆ¥ÄAvj1PÆArgªªAxª °ZÄ, CAZg °ZÄ AiÄ±,ÄUÆArgªª 1ªaiAUyª PÆq ,Ä»vi
PëwAiÄE Dzj1gªªAxª DVª. ''Š'Y PvAiÄEÄ Z@ÆavªÄv,Äª ¥AiÄvÇAz »rzÄ
µÄPi'ÄiÄgï, °«ÄAU, ZÄ'ð rPEï, °AiÆÄ mÄ'Y,ÄAiïi, zÄ,ÆÄªyï, ''ÆÄj,yi ¥Ä,gïEÄPi
EvÄÇ duV,1z'ÄRPg PëwUyÆÄ vgU MVj,Äª ¥AiÄvUyª °Ä°ªqiª aÄvÄ AiÄAgÆ¥ïE°
Š°Ä »AzAiÄª DgA''ªÄzª. EEÄ °Ä°ªqiE° CvÄvª gÆ¥ÄAvG 1ªaiÄ avPvU ¥vÄP
¥±1 PÆqªªAv° gÆr-ÄzÄ, °vÆASvEÄ ±vªiÆz DÇ-ÄÄz'Ä PÄZASj °ÄUÆ
EÄIPUyÆÄ 1ªaiÄ aiÄziªÄP gÆ¥ÄAvj1PÆyªaiÄzEÄ UtªÄiÄ ¥ªiÄtz°AiÄÄ
ÆEÄqŠ°ÄzÄ. CµÄ C@z 1ªaiÄgAUz CvÄEiv CPÄq«Ä ¥Äg,Äg aÄvÄ D,gï ¥±1
U½ªª° ,Ä»viPëwUyÆÄzjv 1ªaiAUyª ¥Ä@ª °ªª JASÄZEÄ °PÄtŠ°ÄzÄ.

$\circ\acute{A}^{\circ}a|q\ddot{i}$ $1\alpha^{\circ}i\acute{A}U\frac{1}{4}\ddot{A}$, $\acute{A}\gg v\ddot{i}$ $P\acute{e}wU\frac{1}{4}E\ddot{A}$ $\circ\acute{A}U$ $Dzj^1z|a\check{C}\acute{A}$, $\acute{A}gvz^{\circ}\acute{E}$ $P\acute{E}q$ $C\acute{A}xZ$
 DV^a , $\acute{A}gw\acute{A}i\acute{A}$ $avgAUz^{\circ}$, $\acute{A}\gg v\ddot{i}$ $P\acute{e}wU\frac{1}{4}E\ddot{A}$ Dzj^1 $vAi\acute{A}gz$ $1\alpha^{\circ}i\acute{A}U\frac{1}{4}\ddot{A}$, $\acute{A}P\eta z\acute{A}$,
 $\acute{A}gvz^{\circ}$ $1\alpha^{\circ}i\acute{A}z$ $GU^a\acute{A}\acute{A}$ $MAzx\check{d}z^{\circ}$, $\acute{A}\gg v\ddot{i}$ $Cx^a\acute{A}$ $\acute{Y}g\acute{A}tU\frac{1}{4}E\ddot{A}$ $zj^1z\acute{A}Vz$. EzP
 $Gz\acute{A}^{\circ}gu$ $JAzg$ $g\acute{A}e\acute{A}$ $^{\circ}j\pm Az'$. (1913), $v\acute{A}\acute{A}E\ddot{i}$, $\acute{A}\ll w$ (1917), $\circ\acute{A}P\acute{A}z^{\circ}\acute{E}$ (1917),
 $^2\acute{A}P\mu$ $d\acute{E}$ (1918) $a\acute{V}\acute{A}$ $P\acute{A}\frac{1}{2}Ai\acute{A}$ $a\acute{A}z\check{d}E$ (1919) $1\alpha^{\circ}i\acute{A}U\frac{1}{4}\ddot{A}$.

„Ä»viPëWUȚÄ aÄvÄ PElq 1□aİAUȚÄ: «±z AiiÄaȚÄ ȚÄμAiÄ avgAUaEÄ UaÄ±zgE
 PÄZASj DzÄjv Z®EavUȚÄ, ASİ zEeqCgÄvz. Z®EavUȚÄU 1zȚÄ „Ä»viäEÄ
 SȚÄ1P/EȚÄaȚÄEÄ «gEÄC, Äaag EqaÄAiÄE F ¥QAIÄ qgAvgaÄV, ÄVz. »ÄU
 „vi°j±Az avCÄZ DgAȚÄÄZ „Ä»viz 1□aİÄ gE¥ÄAvgvAiÄÄ EAÇE ÇEz agUE
 aÄÄZÄÄjzÄP/EaqÄ SgÄwz. PElq avgAUz° ¥, Ävz®E, ° ¥w aμð, ÄPμÄ, „Ä»vi
 PëWUȚÄEÄ Dzjv 1□aİAUȚÄ vAiiaGÄUÄw a JASÄEÄ UÄgÄw, S°ÄZÄ. PÄaA¥Ä, PÄgAv,
 PÄEÄðqİ, ȚEg¥, ȚEȚÄaÄgÄ, ®APÄ±İ, ¥EtðZAZ vÄd1, ÇEAväÄEwð, CÄgÄ±
 EÄUqEÄt. aȚÄZÄ», CVİ2Äzgİ aÄÄAvÄZag PëWUȚÄ vgU SgÄwz. F anE° VjÄ±İ
 PÄ,g aȚÄ, n.J.İ.EÄUÄȚgt, SgUEgÄ gÄaÄZAZ¥, İ.Dgİ.gÄaÄZÄ,EÄAiÄÄ, EÄUw°ȚÄ
 ZAZ±ÄRgİ, ©, ÄgÄ±İ, İ,±ÄμÄC, ©.J.İ. °AUZÄagÄ, P.JA ZİvEİ, «±ÄȚigäEİ
 aÄÄAvÄZag qzÄð±z avUȚÄ UaÄEÄ°ðäÄZäaİUȚÄVA

PElq avgAU^aĖÄĬ ¼^atUAIĖÄĬ U^aĖ¹zg D±AiĖĖPg^aÄZ ¥^aiÁt z°
PÁZASjU¼ S¼PAIiÁVz. DgA^z° ÉÁIPU½Az ^aiÁv ¥^zÄ^av^aÄz avgAU Cg^avg
z±Pz° PÁZASjU¼v wqÁVvÄ. É^aČZAIĖ ¥Uw^zÄ® PÁZASjPÁgJAz ^aÄz^aÁV



“ $\frac{1}{2}$ AiÄwzł PÁZASjU $\frac{1}{4}$ Ä avgAU^aÉÄł ,ÁUw1z^ał. 1962g° n.«.1AUİ oÁP/Egİ CagÄ Pİ:μ^aÄwð ¥ÁgÁtPg ‘z^aÄðZÄ^av’ PÁZASj Dzj¹ òzÄð²¹z ‘PgÄuAiÄÄ PÄIÄASz PtÄ’^aÆz® PEİq PÁZASj DzÁjv av. ^aÆz® “ÁJU PÁZASj DzÁjv av vAiİÁj,Ä^a zÉAiÄð^aiÁrz n.«.1AUİ oÁP/EggÄ Pİ:μ^aÄwð ¥ÁgÁtPg ‘PÄ®^azÄ’^aÄvÄ v.gÄ,Ä.Cag ‘ZAz^a $\frac{1}{2}$ AiÄ vÄÄI’ JAS^aavgqÄ PÁZASjU $\frac{1}{4}$ ÄÄł vgU C $\frac{1}{4}$ ^ar¹ AiÄ±¹AiiÄzgÄ. Cag AiÄ±¹ðAZÄV Evg òzÄð±PgÄ PÁZASjU $\frac{1}{4}$ ÄÄł vgU vgÄ^a ¥AiÄvÄ^aiÁrzgÄ. CzÄ^agU ¥ÉgÁtP, eÄÉ¥z, Lw°Á¹P avU $\frac{1}{4}$,ASiAiÄÄ °ZÄvvÄ. ‘¥Ä^aÄz ¥Äw’, ‘,Æ^ıİ^aiÄ,gİ’, ‘UÄ $\frac{1}{2}$ UÄÄ¥Äg’, ‘“ÆzÄÉ’ zAv° GvÄÄ avU $\frac{1}{2}$ zİgÆ ¥ÉgÁtP avU $\frac{1}{4}$ Ä^aÄov ¥qçzİÄł. ‘PgÄuAiÄÄ PÄIÄASz PtÄ’ PÁZASjAiÄÉÄİzj¹ vAiİÁgÄzgÆ Z®Éavz^aiÄzjAiÄ° CAV° Sz^ıÄ^auAiÄÉÄÉÆ vg°®.

vzÉAvgz° LzÁgÄ^aμðU $\frac{1}{4}$ Ä C^ıÆAzÄ E^ıÆAzgAv PÁZASjU $\frac{1}{4}$ Ä Z®ÉavU $\frac{1}{4}$ ÄzÄł. 1965g ‘«Ä,İ °Ä^ıÄ^aw’, 1987g ‘“ $\frac{1}{2}$ ^aÆÄq’ zÄR^ıÄ°ðÄÄzAv° PÁZÄASj DzÁjv Z®ÉavU $\frac{1}{4}$ Ä. PÁZASjAiÆAzÉÄł °ÄU S $\frac{1}{4}$ ¹PÆ $\frac{1}{4}$ S°ÄZASÄzPİ GzÁ°guAiİÄUÄ^aAv F JgqÆ Z®ÉavU $\frac{1}{4}$ Ä^aAvÄ. E^a®zÄ Cg^avg z±Pz Ä°ovz PÁZASj DzÁjv avU $\frac{1}{4}$ Äzg, vÄÄzÄ PÁZASjAiÄÉÄł Dzj¹ ZzÄgAUg òzÄð²¹z ‘,ÄðÄAU $\frac{1}{4}$ ’, JÉİ.®Q^ıÄÄÄgÄAiÄt òzÄð²¹z ZzÄgAUg ‘GAiiÄı’, «.1.Ég¹A°ÄÄwð òzÄð²¹z, CÉPİ Cag ‘,ÄzÄİgÄU’ ÄÄÄvÄz ,ÄÄiÄgÄ 18 PÁZASj Dzj¹z avU $\frac{1}{4}$ ÄÄł ðÄr Cg^avg z±PÄł F ¥gÄ¥gU “zSÄÉÄç °ÄQvÄ JASÄzÉÄł UÄgÄw, S°ÄzÄ.

PEİq Z®ÉavgAU ÄÄvÄ ,Ä»vİzÉÄİÉÄł ÉÆÄrzÄU PEİq S°Ä¥Ä®Ä DzÄðP ,İdÉ²Ä® ,Ä»wU $\frac{1}{4}$ gÆ MAZ® MAZÄ Pİw vgAiÄ ÄÄı^ı SÄçgÄ^aÄzÄ PÄtÄvz. Evg “ÄμU $\frac{1}{4}$ ®Æ ,Ä»vİ PİwU $\frac{1}{4}$ ÉÄİzj¹ avU $\frac{1}{4}$ Ä gÆ¥ÄUÆ $\frac{1}{4}$ ÄwgÄ^aÄzÉÄł PÄ $\frac{1}{2}$ zİÄ^a. Dzg AiİÄ^aÄzÄ MAZÄ “ÄμAiÄ° PEİqz° SÄçgÄ^aμÄ °,gÄAv ,Ä»wU $\frac{1}{4}$ PİwU $\frac{1}{4}$ Ä zİ±^ı ÄiÄzİÄPİ C $\frac{1}{4}$ ^arPAiİÄVgÄ^aÄzÄ CÉÄÄiÄÉ. ÉÄÄ CUUtİ ,Ä»wU $\frac{1}{4}$ Äz PÄÄA¥Ä (“gİİU PÆg $\frac{1}{4}$ İ,PÄÉÆgÄ.°Uİrw), ²gÄÄ PÄgAv (ZÉÄÄÆzÄr, ÄÄıÄiÄ ÄÄPİÄ, aUÄjz PÉ,Ä), ÄiÄ¹ ÄÄPmÄ± CAiİÄUÄgİ (PÄPE PÆÄm), AiÄÄ.Dgİ.CÉAvÄÄwð (Wİ±Äzİ, CÄ,İ, Sg, ,Ä,Äg),wÄÄt (“ $\frac{1}{2}$ ^aÆÄq, ±g¥Adg, °ÆÄı-°tÄ, °u^ıÄUÄjzÄU), J.A.P. EÄçgÄ (Ue¥Æe, ¥tAiÄÄÄ EvÄİç), CÉPİ (,ÄzÄİgÄU), vgÄ,Ä (ZAz^a $\frac{1}{2}$ AiÄ vÄÄI, ZPwÄxð“AQÄiÄ S^ı, ©qÄUqAiÄ “Är, °A,VÄv, ZAzÉz UÆA“,UÄ $\frac{1}{2}$ ÄiÄvÄ, DP¹P, ÉÄUg°ÄÄł EvÄİç), ¥ÆtðZAz vÄd¹(CŞZÆjÉ ¥ÆÄ,ÄİÄ,Ä, vSgÉ Px, PÄ© ÄÄvÄ EÄiİÄ®),İ.®APÄ±İ (CPI ÄÄvÄ ÄÄÄ,Äe PxÄ¥,ÄU), zÄÄıqÄ(ÄÄAiÄÆg), “ÄgwÄ,Äv (VjPEİ, °Ä°AiÄ °Ä°É ÄÄÄÄ,İqP®Ä UÄqz ÄÄÄı), UÆgÆgÄ (SÆvAiÄÉ ÄÄU CAiÄÄ,°ÄÄiÄÄw, H Äð²), J,İ.Jİİ. “İg¥ (ÄÄ±ÄİP, ÄÄvzÄÉ,vS°AiÄÄ ÄÄÉÄz ÄÄUÉ, ÉÄÄÆg $\frac{1}{4}$ Ä), ²ÄPİ:μ D®É° $\frac{1}{2}$ (PÄqÄ, “ÄdAUÄiÄÉ z±Ä^avÄgU $\frac{1}{4}$ Ä, ¥g,ÄUz UAqwÄÄ, İÄðPİ, PÄgÄSg ®P) ZzÄgAU (GAiiÄı, ,ÄðÄAU $\frac{1}{4}$), VjÄ±İ PÄÉÄðqİ (ÉÄUÄÄq®), zÄÄÉÆgÄ ÄÄ°ÄzÄÄ (CÄiÄ,), C±xİ (gAUÉÄÄiÄQ), Pİ:μÄÄwð ¥ÁgÁtP (PgÄuAiÄÄ PÄIÄASz PtÄ, ÄÄtÉ ÄÄU $\frac{1}{4}$ Ä, PÄ®^azÄ, ,ÉÄç C¥t), ZAz±ÄRgPA“Äg (,AVÄv, °gPAiÄ PÄj), SgUÆgÄ gÄÄAZÄ¥ (MAZÄ H jÉ Px), PÄÄ. «Äg“z¥ (PÆmÄ² PÉ,Ä, ÄÄÉÄÄz °ÄqÄV, PAqz ÄÄÄ), ©.«. ÄİPÄÄogÄdÄ (GzÄ) »ÄU ¥nAiÄÉÄł ÄÄÄÄzÄÄj, S°ÄzÄVz.



MmÁg ,Á»vì Pèw DzÁjv Pèlq 1ªaiÁU¼Á Pèlq avgAUz° GvªÁ
 ¥ÁPPªUðªÉÁ òÁIÁ òÁPªª° AiÁ±¹AiiÁVz|ª| F ªÁÉ®P ªÁgwªÁiÁ 1ªaiÁgAUz Evg
 ¥ÁzÁ²P avU¼Av Pèlq avgAUª| gÁ¶ªÁiÁ ªÁVª CavgÁ¶ªÁiÁ ªÁIz° °,gÁU¼¹zª|
 Ezg/EAÇU CÉÁP ªaiÁð¥Pgª, ªzÁð±Pgª ªÁVª Élgª ,Á»vì Pèw DzÁj¹ vAiiÁj¹z
 1ªaiÁU¼° «²µ ¥AiÉÁU ªÁVª ¥j±ªÁÇAz Pèlq avgAUªÉ 2ªªÁAvUÉ½¹ª. eÉvU F
 1ªaiÁU¼Á PÁ®PÁ®P ,ª«¹z MAZª MAZª jÁwAiÁ ,ÁaiÁfP ,ªÁ,|U¼ÉÁ ¥j°j ,ªª
 ªÁVª ªiÁÉªÉ SzÁQU ªÁPÁz ªiÁÉªªiÁ ªiÉ®U¼ÉÁ dÉ ,ÁaiÁÉjU v®Á|,ªª P®,
 ªiÁªª. Dz|jAz ,Á»vì Pèw DzÁjv Pèlq 1ªaiÁU¼Á Pèlq avgAUª ªÁÉ®ÁU°É
 PÉqÁU¼ªVª JÉI§ªª.

G¥,ª°Ág: Pèlq avgAU ªÁVª ,Á»vìz ÉqªªÉ ,ÁAUv|P z±PU¼ EwªÁ,ªz, Pèlq
 avgAUz ¥AiÉÁU ¥jªvðÉ ªÁVª AiÁ±¹U F avU¼ª ªÁÉ®ªªVz|ª|. ,Á»vì ªÁVª 1ªaiÁ
 gAUz ªÁUªªz ,ÁPªª PèwU¼ª ª½ vgU Szªª. ,zÇgªAiÁ avU¼AS ¥ªª,ªiÁ dvU
 GvªÁ ¥ÁPPªUðªÉÁ Pnz QÁwð ,Á»vì Pèw DzÁjv 1ªaiÁU¼U ,®Ávz. ,Á»vì
 PèwU¼ÉÁ Dzj¹z avU¼ª Pªª®, ,zÇgªAiÁÉÁ ¥w¥ªÇ¹zµª C®z ªÁtdi z|¶AiÁ®/E
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Media in Indian Democracy- A Social Responsibility

Dr.Sahana Priyadarshini

Assistant Professor

Department of English, Government First Grade College, Malleshwaram
Bangalore -560012

Abstract:

The role of media in a democratic system has been widely debated. India has the largest democracy in the world and media has a powerful presence in the country. In recent times Indian media has been subject to a lot of criticism for the manner in which they have disregarded their obligation to social responsibility. Dangerous business practices in the field of media have affected the fabric of Indian democracy. Big industrial conglomerates in the business of media have threatened the existence of pluralistic viewpoints. Post liberalisation, transnational media organisations have spread their wings in the Indian market with their own global interests. This has happened at the cost of an Indian media which was initially thought to be an agent of ushering in social change through developmental programs directed at the non privileged and marginalised sections of the society. Though media has at times successfully played the role of a watchdog of the government functionaries and has also aided in participatory communication, a lot still needs to be done.

Keywords: media, social responsibility, democracy, Indian media, Indian democracy, public sphere

Introduction

Democracy in general terms is understood to be a form of government which is subject to popular sovereignty. It is essentially a rule by the people which is in contrast to monarchies or aristocracies. One of the crowing glories of the democratic system is the freedom of expression and the space that is provided to views from different sections of the society. A democratic system can run to its utmost potential when there is wide participation on the part the general mass which is not possible without people getting informed about various issues. Reliable information resources are an important constituent of any democratic society. This is where media steps in. Mass media in its different forms have

influenced human life in the present century. They have primarily provided information and entertainment to people across countries. Print media, being the leader over a considerable period of time has now got competition from Television, which is reshaping many of the social responses. Radio apart from providing news and views has also developed a flair for entertainment, thereby getting a lot of acceptance. There is also the new media with internet being its flag bearer. Internet has indeed made it possible to disseminate information and ideas in real time across the globe. However, among all these developments there is a cause of concern. Is media really fulfilling its social responsibility? Is a booming global mass media posing



threats to the democratic way of thinking? In it posing challenges to a country like India where media has a greater role to play rather than merely providing information and entertainment? Media and Social Responsibility: The Normative Argument The normative view of the press argues that the conduct of the media has to take into account public interests. The main public interest criterions that the media need to consider include freedom of publication, plurality in media ownership, diversity in information, culture and opinion, support for the democratic political system, support for public order and security of the state, universal reach, quality of information and culture disseminated to the public, respect for human rights and avoiding harm to individuals and the society. The social responsibilities expected from media in the public sphere were deeply grounded with the acceptance of media as the fourth estate, a term coined by Edmund Burke in England. With the formation of the 1947 Commission on the Freedom of the Press the social responsibility of media became a strong debating point. It was formed in the wake of rampant commercialization and sensationalism in the American press and its dangerous trend towards monopolistic practices. The report of the Hutchins Commission, as it was called, was path breaking on its take on social responsibility and the expected journalistic standards on the part of the press. The theory of social responsibility which came out of this commission was backed by certain principles which included media ownership is a public trust and media has certain obligations to society; news media should be fair, objective, relevant and truthful; there

should be freedom of the press but there is also a need for self regulation; it should adhere to the professional code of conduct and ethics and government may have a role to play if under certain circumstances public interest is hampered. Democracy, Media and the Public Sphere Informing the citizens about the developments in the society and helping them to make informed choices, media make democracy to function in its true spirit. It also keeps the elected representatives accountable to those who elected them by highlighting whether they have fulfilled their wishes for which they were elected and whether they have stuck to their oaths of office. Media to operate in an ideal democratic framework needs to be free from governmental and private control. It needs to have complete editorial independence to pursue public interests. There is also the necessity to create platforms for diverse mediums and credible voices for democracy to thrive. It has already been discussed that media has been regarded as the fourth estate in democracy. Democracy provides the space for alternative ideas to debate and arrive at conclusions for the betterment of society. The publicly agreed norms are weighed over that of actions on the part of economic organizations and political institutions. This is close in essence to the concept of public sphere where rational public debate and discourse is given importance. Individuals can freely discuss issues of common concern. Media plays one of the crucial roles behind the formation of public sphere. However, Barnett is of the opinion that in modern times the true sense of public sphere is getting eroded with the media of public debate getting transformed to mediums for expressing particular



interests rather than general interests which are universally accepted. This signifies that public sphere which is essential for a vibrant democracy can actually be channelized to serve vested interests rather than public good. Media and Indian Democracy The political system in India is close in spirit to the model of liberal democracy. In the constitution of India the power of the legislature, executive and judiciary have been thoroughly demarcated. The party system in operation is a competitive one with flexibility of roles of government and opposition. There is also freedom of the press, of criticism and of assembly. Indian democracy has always attracted attention worldwide and has made scholars to ponder over the secret of its success amidst considerable odds. In India diversity is almost everywhere and it is not a developed nation. The problems of poverty and inequality in distribution of income have been constant irritants. Nevertheless, till today democracy has survived in the country. The role of media in India, the largest democracy of the world is different from merely disseminating information and entertainment. Educating the masses for their social upliftment needs to be in its ambit as well. In a country where there is large scale poverty, unemployment and underdevelopment media has a responsibility towards developmental journalism. It has a role to play behind formation of public opinion which can force the political parties to address the core issues haunting the country's progress. However, public opinion can be manipulated by vested interests to serve their own goals. Media can conceal facts and project doctored ideas to influence the electorate and thereby the voting outcome. Values like

objectivity and truthfulness in presentation of news and ideas can be totally done away with. In India public service broadcasting was given much importance after independence. It was used as a weapon of social change. AIR and Doordarshan, the public service broadcasters in the country had the responsibility of providing educational programs apart from information and entertainment. However, it needs to be taken note of that the public service broadcasting system in the country was closely identified with the state. A monopolistic media structure under state control has the threat of becoming the mouthpiece of the ruling elite. The scenario was bound to change with the opening up of Indian economy in a bid to integrate with the global system. It signalled the emergence of a competitive market in the field of media with public service broadcasters getting challenges from private entities. This, however, had the seeds of a new problem of ownership. Ownership pattern of media across the globe and in India is a cause for concern. There are big corporate houses who own newspapers and television networks. A higher concentration of ownership increases the risk of captured media. Media independence in such a scenario gives way to safeguarding the interest of the owners who may not serve social responsibilities. The space for plurality of ideas is eroded sending ominous signals for democracy. Bogart opines that in many democratic countries media ownership has reached dangerous levels of concentration. He has cited the examples of News Corporation's 37 % share in United Kingdom's national newspaper circulation and Silvio Berlusconi's ownership of top three commercial television channels, three



pay TV channels and various newspapers and magazine in Italy which act as his political mouthpieces. Transnational powerful media organizations are in operation in India post liberalisation. These are big multinational corporations who own a chunk of the mass media market ranging from newspapers, television, radio, book publishing to music industry. Five of world's largest media conglomerates include General Electric, Walt Disney, News Corporation, Time Warner, Viacom and CBS. In India there are big players like the Times Group and ABP who rule the roost in the media arena. In a bid to open up the Indian market 26% foreign direct investment has been allowed in news publication and 74% has been allowed in non news segments by the Government. 100% foreign direct investment is available in the film industry. 100% FDI is also allowed in television software production subject to certain government norms. Cable networks and FM Radio networks have FDI limits of 49% and 20% respectively (FICCI and PwC, 2006). Research undertaken by PricewaterhouseCoopers has shown the FDI investment trend across mass media in India. Virgin Media Asia has a holding in HT media's foray into FM radio. Financial Times (Pearson Group) has an arrangement with Business Standard; AmericorpVentures, Mauritius has a stake in Nimbus Communications which deal in television and films and Reuters UK has equity sharing with Times Global Broadcasting, the Indian entity. Therefore, across mass media options have opened up for availability of transnational homogeneous content. The growth of media conglomerates and their powerful presence has raised fears

of manipulation of ideas by a powerful few detrimental to the democratic fabric. The corporate giants have also engaged in severe competition among themselves dishing out news and content which is primarily dominated by denationalization, sleaze and glitz to capture wider markets. The disturbing trend that has emerged in the present media scenario is the use of media in the battle between rival political groups (Coronel, 2003). In fact, this new phenomenon is in operation in India with newspapers and news channels taking sides while presenting facts. The same event can be presented in two contrasting manners in two newspapers or two television channels. Coronel argues that promotion of hate speech in place of constructive debate and creating an atmosphere of suspicion rather than social trust has the danger of making people cynic about the democratic setup leading to its breakdown.

While discussing the dangers associated with the developments in media it needs to be said that media in India has also undertaken roles which have strengthened democracy. The media as a watchdog of the democratic system has unearthed its various shortcomings. Investigative reporting in print and television media has helped in exposing large scale corruptions which have robbed the nation. The Commonwealth Games Scam, the Adarsh Housing Society Scam, Cash for Vote Scam and the Bofors Scam are the highpoints of the Indian media. Across newspapers and television channels voices have been raised when the bureaucracy, judiciary or other public functionary have crossed the laxmanrekha. There have also been initiatives to promote community media



for the citizens to air their concerns. This is a significant leap towards alternative media usage which is distant from the dominant structure. Here the importance lies more in participatory communication right from the grassroots rather than communication which flows top down. Various television channels have also given the space for ordinary citizens to air their views in the form of citizen journalists thereby promoting democratic participation. Newspapers have educated the masses by informing them of the developments in the field of science and technology. They have also expressed strong views against prejudices which harm the society. Much developmental news has also been aired through the medium of radio. Its comparative low cost and wide acceptance among poorer sections have made it a potent tool for expressing ideas beneficial to the public. Internet, a relatively newer entrant in the field of mass media, has proved to be more democratic than newspaper and television. Internet has provided the opportunity for citizens who are conversant with the medium to express their views about a number of issues. In many cases groups have been formed by likeminded people who discuss and debate over a number of decisions on the part of the government and seek new ideas for way ahead. The power of the internet can be easily judged from the developments in Egypt in recent times. Social networking sites like Facebook and Twitter were used to garner support against the regime of President Hosni Mubarak. Internet has been used by various public service organizations and N.G.Os to inform people about their objectives and also to make them aware of various initiatives

on the part of the government as well as non government organisations for social upliftment. In internet the barrier to communication is minimal which helps in the formation of a participative environment. There is also greater empowerment of the users through higher level of interactivity and flexibility in choice of media outlets. The potential of the medium lies in its ability to be more personalized by offering user-created content. Nevertheless, there is the threat of advertising revenues influencing media outputs. Those who control considerable wealth have the opportunity to sway public opinion in their favour with the help of mass media. In the 2G scam the Radia Tapes controversy brought in focus the journalist, politician and industrial conglomerate nexus. Developments like these are a threat to democracy and undermine the media fraternity. Advertisements in newspapers, television, radio and at times the internet have become a part of the present election campaigns. Candidates with better funds have the edge over others in being voted to office because they can buy newspaper space and considerable air time. Conclusion In Indian democracy media has a responsibility which is deeply associated with the socio economic conditions. The present scenario is not quite encouraging and certain areas need to be addressed. Media organisations, whether in print, audio visual, radio or web have to be more accountable to the general public? It should be monitored that professional integrity and ethical standards are not sacrificed for sensational practices. The freedom of press in the country is a blessing for the people. However, this blessing can go terribly wrong when manipulations set



in. The self regulatory mechanism across media organisations need to be strong enough to stop anomalies whenever they occur. Agencies like Press Council of India need to be vigilant to stem the rot. Big media conglomerates are a serious threat. To counter this problem pluralistic media organisations which are financially viable need to be encouraged. Community participation is a goal that the media should strive for in a country like India.

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The role of media in building Public opinion-A Social perspective

Prof. Shruthi Talneri

Asst. Professor, Department of English,
Govt First Grade college, Peenya, Bengaluru

Abstract

Man is a social animal and he cannot live in isolation, so his actions affect not only him but also the society around him. In turn the society affects man in many different ways and social media has a major influence in shaping the life of people and building an opinion. This paper gives a brief on what is social media and how it effects in building a public opinion.

Key words: Media, Impacts of media

Introduction

Mass Media has a prominent role in India. Contemporary Society is far too complex to function only through interpersonal communication. Mass communication is the process of delivering information, ideas and attitudes to a sizable and diversified audience thorough the use of media developed for that purpose. It is the most powerful tool to develop an opinion in the contemporary times. It is the television, internet, radio and the press that strongly influences the socio-cultural change and develop an insight into each aspect of the society. Media goes to the extent of influencing the daily choices that people make in their life. It will shape the thinking and perception of things in the society. Men experience various problems in life and his behavior and thinking pattern gets affected. Media is an instrument that lays a strong foundation in the cognitive process and contributes in developing an opinion.

Role of media in developing a Positive Public Opinion

Public opinion is a collection of thoughts and opinions of the majority of a social group. Anything you see on TV or hear on radio, advertisements that brands

show you, all the content you read in your favorite newspaper or magazine, all the posts, pictures and videos you see on Facebook, Twitter or YouTube, all of them are contents that can affect or even change your thoughts and beliefs. Using mass media, people's attitudes and habits can be changed. For example all of us have mistaken or wrong notions about various diseases like leprosy or HIV/AIDS. Many of us think that by touching people suffering from these diseases we would be infected. We might have heard on radio or watch television programmes or read messages which tell us that by touching an HIV/AIDS patient we do not get infected. This builds in a common public opinion on the same concept. This is a positive impact of media on building a public opinion. Similarly, for eradicating polio there are special programmes and messages disseminated through the media. They inform people about the need for giving polio drops to children and about the day that is declared a polio day. Special arrangements are made to give polio drops to as many children as possible on polio day. This build awareness on this social need and people develop a common opinion on this.



Media helps a democracy function effectively. They inform the public about government policies and programmes and how these programmes can be useful to them. This helps the people voice their feelings and helps the government to make necessary changes in their policies or programmes. This is a means of building a public opinion in no time. It acts as an agent of change in development. This is achieved by influencing the public opinion through mass media. Such influence can be positive or negative.

Factors Affecting Public Opinion:

News agenda

The formation of public opinion starts with agenda setting by major media outlets throughout the world. This agenda setting dictates what is newsworthy and how and when it will be reported. The media agenda is set by a variety of different environmental and news work factors that determines which stories will be newsworthy. When news is sold after determining the worthiness, the public opinion develops on the basis of it.

Framing

Framing is when a story or piece of news is portrayed in a particular way and is meant to sway the consumer's attitude one way or the other. Most political issues are heavily framed in order to persuade voters to vote for a particular candidate. For example, if Candidate X once voted on a bill that raised income taxes on the middle class, a framing headline would read "Candidate X Doesn't Care about the Middle Class". This puts Candidate X in a negative frame to the news reader.

Social desirability

Social desirability is the idea that people in general will form their opinions based on what they believe is the popular opinion. Based on media agenda setting and media framing, most often a particular opinion gets repeated throughout various news mediums and social networking sites, until it creates a false vision where the perceived truth is actually very far away from the actual truth.

Impacts of Media in influencing public opinion

Media plays a role in creating a opinion on any product being marketed. This could be a positive public opinion or a negative public opinion. For example Maggie Noodles _a product from Nestle was well received in the Indian market and media had contributed in making a positive impact. But lately the same media has brought about the ill effects of Maggie noodles consumption and been in successful in changing the attitude to negative public opinion.

It impacts the thinking process in such a large manner that many aspects of life that was looked upon as unconventional has been flipped to feel like conventional and acceptable. When in earlier days women were not send to acquire education to other parts of the country today the media has publised so many positive reviews and opportunities for education outside the country .It has created a public opinion that women from middle class can also conquer their dreams travelling to other places in quest of education.

Social media is a forum which has gained the confidence of people and a public opinion has been developed that social media keeps no restriction in expressing oneself and as an alternative socialization. It has impacted in developing public opinion and



awareness building in health issues. People develop notions on diseases that prevail in the society and take measures to protect themselves. For example there are a number of videos that create awareness on health policies that exist in the country. It influences public opinion. The Chennai Floods is a recent social scenario that captured the public opinion that help need to be extended and it was an example of media contributing to developing a positive public opinion.

The media provide us with news of events happening beyond our immediate surroundings and though situations around the world are touched upon. Media and public opinion have always been connected, as the media play a significant role in mass communication and reflect issues of immediate concern to a particular society. With the increasing role of the media in shaping public opinion, it has become more commercialized on one side and has experienced more limitations and restrictions on the other. Raw information evolves into perceptions based on that information. In some cases, it's subject to constant fluctuation; in others, public opinion is more solid and stable, based on traditional thought processes. With social media, persuading the public and influencing opinions have become more achievable and, yet, more uncontrollable.

In the twenty-first century it is mainly the combination and the characteristics of modern technologies that influence society in building a common opinion.

Conclusion

In this paper we have discussed various positive and negative impacts that today media has in building a public opinion. Mass media utilizes a wide variety of

advertising techniques to get their message out and change the minds of people. Since the 1950s, television has been the main medium for molding public opinion, but in the contemporary society internet is becoming increasingly important. Social media has established new ways of communicating and creating an opinion in the minds of people.

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 OgAUeÅSÈ, EÅAiÅEÅ »ªn¹z¼Å.¹



gát ZÉ^aiáíAíÄ Dq½v aⁱÁv^azÄ vÉⁱ aÄUÉÁz S, ¥ÉÁiÄPjU 'ÉÄrzAv Éq, Pvð^aiZÄvÉAUÇgÄ«P, , aðzÁ aÄzÄg^aÁz aⁱÁvÄ, zÄµjU ²P, , dÉg° Äz, ¥Ä¥PÁiÄð, zAiÄ, , vÄAiÄð, D±AiÄ ŠAiÄ¹z^ajU gPu, Dvⁱ , AÄiÄ^aÄ, PÁ^aiÄÇ zÄµU¼° dAiÄ, vvz PÄjv aAvÉ, Czðv vvz wgÄ½ w½zÄPÆ¼Ä«P, aÄzdg , ÉÁÉ, Dvⁱ«^aÄ±ð, ¥ÉdððÉz aⁱÁUð, ²^aÉ , Äw °ÁUÆ DÉAz^aÉÄ ÇÉÄ¹«ⁱÄ, »ÄU EÉÆ ÇÉÄP CA±U¼ PÄjvÄ G¥zÄ± aⁱÁqÄ^a aÄÆ«P MŠ Dz±ð vÄ→ÄiÄv ÉqzÄPÆArg^aiZÄ w½zÄŠgÄvz.²

gát ZÉ^aiáíAíÄ ÉAvG P¼Ç PÁ@z° °, gÄ aⁱÄrz aÄvÉŠ ¥¹zi aÄ»¼ JAzg gát «Äg^aiáí. FP PÆq MŠ Gv^aÄ gÄdPÄgtÄiÄvz¼Ä. Ä«P aÄÄÄÄr ,ÆÄ^aÄÄRgÉÄÄiÄPÉÉÄ zvÄvUzÄPÆAqÄ gÄd¹Äg aⁱÄrz E^a¼Ä ZÉŠ, ¥ÉÄÄiÄPÉ aÄ«vÄ→ÄiÄvz¼Ä. Dq½v gAUz° ZÄuÄP¼Ävzⁱ E^a¼Ä °ÉzgÁ^aiÄ zÄ½AiÄ , Az¹ðz° ±vÄU½U ÄiÄ^a jÄwÄiÄ«Æ Ä¹ÄU¹ÄgzÄÄ Cg^aÉÄiÄÉÄ , ÄIÄ°ÄQz¼Ä.³ °ÉzgÁ^aiÄ D, ÄÉz ZjvÄPÄgÉÄz Q^aiÄð«ÄiÄÄ °ÉzgÁ°U aÄzÄvjiÄ°, g¹PÄ ¥ÄuÄiÄ aⁱÁUð^aÄzⁱ° C, Ä«Ävz gát «Äg^aiáíAíÄ , zÄ± ¥Ä^aÄ, ±ÉÄiÄð, ¥gÄPÄÄz PÄjvÄ °ÉU½zÄÉ.⁴

P¹ÄgAU:

P¹ÄiÄ° ¹ÄÄiÄgÄ Ä¹ÄU^a» , Ä«PU , ASÄÇ¹zAv P¼Ç PÁ@z zÄÄÄÄiÄ °ÁUÉ ±Ä, ÉU¼°gÄ^a aⁱÄ»w zÆgÄiÄÄvz. CaⁱU¼° P¼ÇÄiÄ ÇÉÄP zÄÄÄÄiÄU¼° «w °ÁUÉ PASU¼° gÄtÄiÄgÄ aÄvÄ aÄziU¼ÄÄ »rÇgÄÄ ÉvÄÄUÉÄiÄg GŠÄ ²«U¼Ä PAqÄŠÄÇ^a. ±Ä, ÉU¼° aÄÄ¼z ²^a°AV⁵ °ÁUÉ aÄÄ¼z dÄŠÄRÄr aÄÄiÄgÄ JÄŠ ÉvðQÄiÄg⁶ G¹ÄRU¼ÄÄ PÄtŠ°ÄzÄ. F ±Ä, ÉU¼° 'aÄÄ¼' JÄŠ ¥zz G¹ÄRÇÄz EzÄ , aÄÆ°Évⁱ ¥zWÄiÄ , APÄv^aÄzAv vÆgÄvz.

, Ä»vⁱ gAU:

Q± 1697-1714g PÄ¹Ä^aÄiÄ°É Š, a¥ÉÄÄiÄPÉ D, ÄÉz°zⁱ UAUÄzÄÄÄiÄÄ 'P¼Ç gÄÉÄ¹ÄzÄiÄ⁷ JÄŠ PÄwÄiÄÉÄ ga¹gÄ^aiZÄ P¼Ç PÁ@z , Ä»vÄgAUz° PAqÄŠÄÇgÄ^a aÄ»¼ÄiÄ G¹ÄR^aÄvz.

²Pt °ÁUÉ zÄÄðP gAU:

P¼Ç PÁ@z°É aÄ»¼ÄiÄgÄ ²Pt °ÁUÉ zÄÄðP gAUz° °ZÄV UÄgÄw¹PÆArgÄ^aiZÄ FUÄU¹Ä @¹¹«gÄÄ DPgU½Äz w½zÄŠÄÇz. P¼Ç aÄ»¼ÄiÄgÄ zÄÄÄÄiÄ, aÄo aⁱÄÉ °ÁUÉ CU°ÄgU½U GzÄg^aÄv zÄÉU¼ÄÄ ÄÄrzÄg. E^agÄU¼° CU, ÄÉz°gÄ^agÄzg gát ZÉ^aiáíAí. E^agÄ aÄ±¥ÄgÄ¥ÄiÄð^aÄv ŠÄzAv° ±ÄUÄj aÄoz gÄÉÄ±ÄiÄ^aÉÄ aÄÄÄzÄ^ag¹zⁱÄÄ D aÄoz , Ä«^aÉÄ wÄj¹zgÄ.⁸

F jÄwÄiÄv ¥, Ävz° @¹¹«gÄÄ DPgU¼ÄÄ UÄÄ¹zÄU P¼Ç PÁ@z° PÄÄ« gÄtÄiÄgÄ aⁱÄv^azÄ Évg aÄ»¼ÄÄÄtU¼Ä , °vÄÄÄÄ vÄÄ zÄÄðP °ÁUÉ ±ÉPtP gAUz° vÆqV¹PÆArgÄ^aiZÄ PAqÄŠgÄvz °ÁUÉ F PÄvz°É C^agÄU¼ ±Ä, QU¼Ä UÄÄZj , Ävz.



P., A	$a\ddot{A}\gg\frac{1}{4}Ai\ddot{A}^{\circ}, g\ddot{A}$	$\overset{\circ}{A}U^a\gg, \ddot{A}\ll PAi\ddot{A}$ $, g\neq$	$a\ddot{A}o/CU^{\circ}\ddot{A}g/z\ddot{A}^a\ddot{A}oAi\ddot{A}$ $\alpha a\ddot{A}\delta t/a\ddot{A}oPz\ddot{A}\neq$
01	$g\ddot{A}t\ Z\neq Ai\ddot{A}f$	$CU^{\circ}\ddot{A}g\ \alpha a\ddot{A}\delta t$	$, \neq a\ddot{A}\pm ARg\neq Ag,$ $P\neq\neq j\neq Ag^{\circ}$ $\circ\ddot{A}U\neq D\otimes\neq a\ddot{A}V\ 1\ddot{A}a\ddot{A}^{10}$
		$a\ddot{A}oU\frac{1}{4}\ \alpha a\ddot{A}\delta t$	$P\neq q\ \ddot{I}, , \neq\ddot{A}^a\ddot{A}\neq Ag,$ ¹¹
		$a\ddot{A}^{\circ}w\neq\ a\ddot{A}oU\frac{1}{4}$ $\alpha a\ddot{A}\delta t$	$G\frac{1}{4}\ll,$ ¹² $2\ a\neq Ag,$ ¹³ $\circ\neq, \frac{1}{2},$ ¹⁴ $1\ z\backslash j,$ ¹⁵
		$a\ddot{A}oU\frac{1}{2}\ z\neq$	$S, a^{\circ}AU^a\ddot{A}fAi\ddot{A}\ , \acute{A}vUg\ a\ddot{A}o,$ ¹⁶ $\pm\acute{A}v\ll\ddot{A}g\neq g\ a\ddot{A}z\ddot{A}U\neq\ a\ddot{A}o,$ ¹⁷ $\neq\ddot{A}\ l\ t g\ Jq^{\circ}\frac{1}{2}\ddot{A}\ a\ddot{A}o,$ ¹⁸ $\neq\acute{A}^a\delta wC^a\ddot{A}fAi\ddot{A}\ DU\acute{A}\ddot{A}\ddot{A}\ a\ddot{A}o,$ ¹⁹
		$z\ddot{A}^a\ddot{A}\otimes Ai\ddot{A}\ \alpha a\ddot{A}\delta t$	$\ll\ddot{A}g\ddot{A}\ z\ddot{A}^a\ddot{A}\otimes Ai\ddot{A}$ $\gg\ddot{A}P, \ll,$ ²⁰ $U\acute{A}U\acute{A}z\ddot{A}\pm$ $a\ddot{A}v\ddot{A}$ $S, a\ddot{A}\pm g\ z\ddot{A}^a\ddot{A}\otimes Ai\ddot{A}\ P\acute{A}q\ddot{A}\neq^{\circ}.$ ²¹
		$z\ d\ , A^{\circ}$	$P\frac{1}{4}\pounds\ \ll\ddot{A}g\ddot{A}\ z\ddot{A}^a\ddot{A}\otimes Ai\ddot{A}\ z\ a\ddot{A}\acute{A}\acute{A}\ddot{A}\ddot{A}U.$ ²²
02	$S\neq z\ a\ddot{A}$	$a\ddot{A}^{\circ}w\neq\ a\ddot{A}o\ , \acute{A}\neq$	$PgP\neq\neq$ ²³
03	$\neq g\ a\ddot{A}\pm g\ a\ddot{A}f$		$P\neq\ddot{A}m\ddot{A}\pm g$ ²⁴
04	$S, a^{\circ}AU^a\ddot{A}f$		$, \acute{A}vUg$ ²⁵
05	$\ll\ddot{A}g\ a\ddot{A}f$		$w\acute{A}x\delta g\acute{A}d\neq Ag$ ²⁶
06	$\ll\ddot{A}g\ a\ddot{A}\ (S, a\ddot{A}i\neq$ $a\ddot{A}q\pounds)$		$CgU^{\circ}\ddot{A}U\neq\ \odot z\neq\neq j\neq\ a\ddot{A}ziz$ $\neq z\ddot{A}\pm$ ²⁷
07	$C\ll\acute{A}z\acute{A}\ll\ C^a\ddot{A}$	$z\ddot{A}^a\ddot{A}\otimes Ai\ddot{A}\ \alpha a\ddot{A}\delta t$	$\pm A^{\circ}\ddot{A}^{\circ}AUz\ddot{A}^a\ddot{A},\ Gq\acute{A}P\acute{A}z.$ ²⁸
08	$\circ AU^a\ddot{A}f$		$1\ z\ddot{A}^{\circ}AUz\ddot{A}^a\ddot{A},\ G\frac{1}{4}\ll$ ²⁹
09	$\ll\ddot{A}g\ a\ddot{A}f$	$z\ddot{A}g\neq\acute{A}\otimes Pg\acute{A}$	$P\neq\otimes Eg\acute{A}\ a\ddot{A}\neq P\acute{A}\otimes P\ z\ddot{A}\ll.$ ³⁰
10	$Z\neq\ll\ddot{A}g\ a\ddot{A}f$	$\frac{1}{2}\ P\neq q$	$P\neq\otimes Eg\acute{A}\ a\ddot{A}\neq P\acute{A}\otimes P\ z\ddot{A}\ll.$ ³¹

Ενδεά gAU:

[illegible][illegible]



AiÄÄz! PÉ±®z SUI Èv!ªEÄI vÆÄ¥ðr¹zgÄ. gÄdE D,ÄEz° F ÈvðQAIÄJU «±Äµ
,¼U¼EÄI PÄÇj,Äwz!gÄ.³³

°S! °ÁUÆ GqÄU-vÆqÄU:

P¼Ç ,A,ÄEz° °tÄÄP¼Ä dgVÄj gÄ²ªÄ ®AU, ªÄÄ-ÄU! ©½ °w Sm CxªÄ
¥m ¥m Sm, °U® ªÄÄ- CAUª, , v-U ©½ ªÄvÄ °¼Ç °Æ, PÄiÄ° Stiz PÆÄ®ÄU¼Ä,
EzgÆAÇU aEiz D-gtU¼EÄI zj,Äwz!gÄ. ªÄEgÄ ÇEU¼ PÄ® «dÄ-u-ÄAz UËj
°SªEÄI DZj,Äwz!gÄ. ªÄEÆgAdEU ,ASAÇ¹zAv ªÄtv-PÄtv, MAZÄPÄ°E ªÄÄ- ªAv
ZªÄvÄgz PÄtv ÈvÄÇU¼Ä Ez!ª.³⁴

,w ¥zw:

P¼Ç PÄ-ªªÇAiÄ ,wU®ÄU¼Ä F P¼Ç PÄ-ªªÇAiÄ°E ,w¥zwAiÄEÄI MAZÄ
UËgªAiÄvªÄz PÄiÄðªASÄzÄV DZj,Äwz!gÄzÄ w½zÄSgÄvz.³⁵ P¼Ç ,A,ÄEz°E
,w¥zwAiÄ DZgu SUI !AiÄvÆq-ªª° CªgÄ CÇªÄAiÄ EAwz, "gÄw ,ªÄiÄz°
EPÄjAiÄ g,AiÄ° »AÇGÄUÄwzÄU PÄzÄgAiÄ ªÄÄ- vE! ¥wAiÄEÄI P¼zÄPÆAq MAZÄ °tÄ
ªÄU¼EÄI Hg-ª ªÄgªtUÄiÄEÄI ªiÄqÄwz!gÄ, DPAiÄ ªÄÄRz° CªPÄAoE«g°®, MAZÄ
PÄiÄ° PÈir, ªÄvÆAzÄ PÄiÄ° °A- °tEÄI »rÇz¼Ä, v-ÄiÄ ªÄÄ- MAZÄ PÆq
»rAiÄ-ÄvVÄ, Cª¼ »Az ,ÁPµÄ dEgÄ ÈqzÄSgÄwz!gÄ.³⁶ Hg-ª ,AZÄgz ÈAvg
ªÄEÄiÄ CAU¼z° ±ªªÄz GqÄ¥Ä zj¹ °ÁUÆ D-gt -Æ¶v¼ÄV PÄ½wz¼Ä. Cª¼
,Äv®Æ dEgÄ qÆÄ®Ä -Äj,Äwz!gÄ. ÈÄEÄ Cª¼EÄI -Än ªiÄq®Ä SÄz «µAiÄ
w½AiÄwz!Av Cª¼Ä ,AvÆÄµÇAz ÈÄz!°U SÄzÄ, ªAvÄPÆAq ,ÁPµÄ ,ªÄiÄ
ªiÄvÆÄrzÄ, Cª¼ °,gÄ UËzªÄ, v®UÄ dEÄAUzª¼Ä, Cª¼ UAq EUÄj -Äj,ÄªªEÄ,
Cª¼ ¥w ªÄgtªE! ,°vÆASvÄ ÇEU¼ÄVz!ª. Cª¼ ¥wU ªÆz°E ÈSgÄ
°AqWÄiÄjz!gÄ, °®ªÄ ªÄP¼ °ÈU °Æwz!jAz CªgÄ ,wÄiÄU®Ä M!g°®, UËZªÄjU
ÈSgÄ ªÄP½z!gÄ, 6-7 µðz ªÄU °ÁUÆ aPªÄU¼Ä. ªÄP¼EÄI ©IÄ °ÄU ,wÄiÄU®Ä M!z
JAS ¥±U Cª¼Ä vE! ÈSgÄ ªÄP¼Ä vE! ªiÄªE ª±P! M!¹z!gÄS Gvg SÄÇvÄ.³⁷

,wU MvÄAiÄ ªiÄq-ÄUÄvzÄiÄ? JAS ¥±U Cª¼Ä ,ªiÄE!ªÄV ÄiÄgEÄizgÆ
S®ªAv¥r,ÄªÇ®ªAzÄ °Ä½z¼Ä. Dzg PÄ°ÄEg° ªiÄv «zª aPªÄiÄ¹Eª¼Æ,
Z®ªªiÄE DVz!g ¥ÄE«ðªª°, ÈEÄªiÄzEÄ CªÄiÄð GAmÄUSÄzÄzÄ °zj ªÄvE
S¼UzªgÄ °ÁUÆ ,Ä»vgÄ ,wÄiÄU®Ä MvÄAiÄ¥r,S°ÄzÄVz. Dzg UËZª¼Ä ,
EZ!-ÄAz ,wÄiÄUÄwz¼Ä. EzÆAzÄ Cªg S¼UzªjU ¥wµAiÄ «µAiÄªÄvVÄ. DPAiÄ
C®APÄgz PÄjvÄ PÄ½zÄU CzÄ CU°z vE! ¥wAiÆqEÄiÄ ¥ÄE«Äð®EPÄV °EgI
,AvÆÄµz DZgu JÄz¼Ä. ÈAvg z°E PÄiÄðPÄV PÄtP PÄ¼®Ä ªÄEU SgÄªiÄzÄV
°Ä½z¼Ä. ÈÄEÄ °aE PÄtPAiÄEÄI ªÄqÄªiÄzÄV ,AvÆÄµÇAz ©Ä¼Æm. D UËZª¼Ä ,ªiÄgÄ
ªÄEªvÄ ªÄiÄ¹E PAZÄ Stz Jvg ªÄPnE Z®ªªiÄVz¼Ä. F -ÄgWÄiÄ PÆg
¥zwAiÄEÄI ±!¹z. Cª¼ PÄjvÄ MAZÄ ,ÄEmi ga¹ Cª¼EÄI agAfÄ«ÄiÄV¹z JASÄzÄV
!AiÄvÆq-ªª° CªgÄ w½¹z!gÄ.³⁸

F PÄ-ªªÇAiÄ ¥Awªv! ªµAiÄ PÄjvÄ !vÆq-ªª° CªgÄ ªAPI¥EÄAiÄPÆ ,w
-zª¼ GzÄ°gu ªÄqÄvÄ, ªAPI¥EÄAiÄPÆÄ MS ªÄÄ, -ÄE ¹ÄÄiÄ° ÇEÄgPÆÄzÄU, D
¹ÄÄiÄÄ ,Äg¥ÄE °ÁUÆ ªiÄª,ªªg ,Ä«Äwz!jAz ÈÄÄ PÄ®ªEÄI °Ä¼Ä ªiÄrzÄV



“z a^{1/4} E^{1/4} a^{1/4} Az E^{1/4} A^{1/4} ° Aqwa^{1/4} Vg^{1/4} z a^{1/4} U^{1/4} , a^{1/4} i^{1/4} E^{1/4} V E^{1/4} g^{1/4} v^{1/4} E^{1/4} z^{1/4} ±x^{1/4} a^{1/4} i^{1/4} r^{1/4} z^{1/4} A^{1/4}. E^{1/4} Avg^{1/4} a^{1/4} P^{1/4} I^{1/4} ¥E^{1/4} A^{1/4} i^{1/4} P^{1/4} E^{1/4} C^{1/4} g^{1/4} v^{1/4} A^{1/4} , Á«g^{1/4} ° t^{1/4} z^{1/4} ÁE^{1/4} a^{1/4} i^{1/4} q^{1/4} a^{1/4} D«^{1/4} μ^{1/4} z^{1/4} E^{1/4} A^{1/4} C^{1/4} U^{1/4} E^{1/4} v^{1/4} g^{1/4} ±¥^{1/4} A^{1/4} i^{1/4} v^{1/4} a^{1/4} i^{1/4} r^{1/4} z^{1/4} g^{1/4} E^{1/4} D^{1/4} P^{1/4} A^{1/4} i^{1/4} v^{1/4} E^{1/4} i^{1/4} ±¥^{1/4} x^{1/4} C^{1/4} A^{1/4} z^{1/4} »A^{1/4} z^{1/4} , j^{1/4} A^{1/4} i^{1/4} °^{1/4} ,³⁹

F j^{1/4} A^{1/4} w^{1/4} A^{1/4} i^{1/4} Á^{1/4} V^{1/4} P^{1/4} ¼^{1/4} P^{1/4} Á^{1/4} Á^{1/4} a^{1/4} C^{1/4} A^{1/4} i^{1/4} °^{1/4} E^{1/4} a^{1/4} Á^{1/4} »^{1/4} ¼^{1/4} A^{1/4} i^{1/4} g^{1/4} P^{1/4} j^{1/4} v^{1/4} Á^{1/4} «z^{1/4} Á^{1/4} ² S^{1/4} g^{1/4} a^{1/4} t^{1/4} U^{1/4} U^{1/4} ¼^{1/4} , ±Á^{1/4} , E^{1/4} U^{1/4} ¼^{1/4} ° Á^{1/4} U^{1/4} E^{1/4} ¥Á^{1/4} Z^{1/4} Á^{1/4} i^{1/4} a^{1/4} ±Á^{1/4} μ^{1/4} U^{1/4} ¼^{1/4} a^{1/4} i^{1/4} Á^{1/4} »w^{1/4} A^{1/4} i^{1/4} E^{1/4} Á^{1/4} a^{1/4} q^{1/4} Á^{1/4} v^{1/4} a^{1/4}. F Á^{1/4} R^{1/4} E^{1/4} C^{1/4} A^{1/4} z^{1/4} w^{1/4} ½^{1/4} z^{1/4} Á^{1/4} S^{1/4} A^{1/4} C^{1/4} g^{1/4} a^{1/4} C^{1/4} z^{1/4} i^{1/4} A^{1/4} i^{1/4} E^{1/4} Á^{1/4} a^{1/4} ±U^{1/4} ¼^{1/4} F j^{1/4} A^{1/4} w^{1/4} A^{1/4} i^{1/4} Á^{1/4} V^{1/4} a^{1/4}:

- P^{1/4} ¼^{1/4} P^{1/4} Á^{1/4} Á^{1/4} a^{1/4} C^{1/4} A^{1/4} i^{1/4} °^{1/4} E^{1/4} D^{1/4} q^{1/4} ½^{1/4} v^{1/4} g^{1/4} A^{1/4} U^{1/4} z^{1/4} ° g^{1/4} Á^{1/4} t^{1/4} Z^{1/4} E^{1/4} i^{1/4} a^{1/4} i^{1/4} f^{1/4} ° Á^{1/4} U^{1/4} E^{1/4} «Á^{1/4} g^{1/4} a^{1/4} i^{1/4} f^{1/4} A^{1/4} i^{1/4} °^{1/4} , g^{1/4} Á^{1/4} ° Z^{1/4} Á^{1/4} ¥Z^{1/4} ° v^{1/4} z^{1/4} ° Á^{1/4} U^{1/4} E^{1/4} E^{1/4} a^{1/4} g^{1/4} E^{1/4} A^{1/4} C^{1/4} U^{1/4} “z^{1/4} a^{1/4} ¼^{1/4} °^{1/4} , g^{1/4} Á^{1/4} P^{1/4} E^{1/4} q^{1/4} P^{1/4} Á^{1/4} ½^{1/4} S^{1/4} A^{1/4} C^{1/4} z^{1/4}.
- , Á^{1/4} »v^{1/4} i^{1/4} g^{1/4} A^{1/4} U^{1/4} z^{1/4} ° , Á^{1/4} ² Q^{1/4} v^{1/4} a^{1/4} Á^{1/4} »^{1/4} ¼^{1/4} A^{1/4} i^{1/4} g^{1/4} Á^{1/4} ° Á^{1/4} U^{1/4} E^{1/4} U^{1/4} A^{1/4} U^{1/4} Á^{1/4} z^{1/4} Á^{1/4} « J^{1/4} A^{1/4} S^{1/4} a^{1/4} Á^{1/4} »^{1/4} ¼^{1/4} A^{1/4} i^{1/4} Á^{1/4} P^{1/4} ¼^{1/4} C^{1/4} g^{1/4} Á^{1/4} E^{1/4} Á^{1/4} i^{1/4} Á^{1/4} z^{1/4} A^{1/4} i^{1/4} J^{1/4} A^{1/4} S^{1/4} P^{1/4} w^{1/4} g^{1/4} a^{1/4} ¹^{1/4} z^{1/4} Á^{1/4} ¼^{1/4}.
- P^{1/4} Á^{1/4} g^{1/4} A^{1/4} U^{1/4} z^{1/4} ° Á^{1/4} i^{1/4} Á^{1/4} E^{1/4} a^{1/4} Á^{1/4} »^{1/4} ¼^{1/4} A^{1/4} i^{1/4} g^{1/4} Á^{1/4} U^{1/4} Á^{1/4} g^{1/4} Á^{1/4} w^{1/4} ¹^{1/4} P^{1/4} E^{1/4} A^{1/4} r^{1/4} z^{1/4} Á^{1/4} g^{1/4}. E^{1/4} z^{1/4} P^{1/4} , Á^{1/4} P^{1/4} μ^{1/4} Á^{1/4} ±Á^{1/4} , E^{1/4} U^{1/4} ¼^{1/4} Á^{1/4} ²^{1/4} U^{1/4} ¼^{1/4} E^{1/4} D^{1/4} z^{1/4} Á^{1/4} g^{1/4} M^{1/4} z^{1/4} V^{1/4} , Á^{1/4} v^{1/4} a^{1/4}.
- ««z^{1/4} j^{1/4} A^{1/4} w^{1/4} A^{1/4} i^{1/4} a^{1/4} E^{1/4} i^{1/4} z^{1/4} D^{1/4} “g^{1/4} t^{1/4} U^{1/4} ¼^{1/4} Á^{1/4} , g^{1/4} v^{1/4} U^{1/4} ¼^{1/4} Á^{1/4} ° Á^{1/4} U^{1/4} E^{1/4} g^{1/4} Á^{1/4} ²^{1/4} a^{1/4} Á^{1/4} a^{1/4} , U^{1/4} ¼^{1/4} Á^{1/4} , C^{1/4} A^{1/4} U^{1/4} a^{1/4} , U^{1/4} ¼^{1/4} Á^{1/4} , ««z^{1/4} ° Á^{1/4} U^{1/4} ¼^{1/4} E^{1/4} Á^{1/4} v^{1/4} a^{1/4} Á^{1/4} G^{1/4} q^{1/4} Á^{1/4} U^{1/4} -v^{1/4} E^{1/4} q^{1/4} Á^{1/4} U^{1/4} A^{1/4} i^{1/4} °^{1/4} S^{1/4} ¼^{1/4} , Á^{1/4} w^{1/4} z^{1/4} g^{1/4} Á^{1/4}.
- , Á^{1/4} a^{1/4} d^{1/4} d^{1/4} P^{1/4} a^{1/4} Á^{1/4} V^{1/4} «d^{1/4} Á^{1/4} “u^{1/4} -Á^{1/4} Á^{1/4} z^{1/4} ° S^{1/4} -° j^{1/4} C^{1/4} E^{1/4} U^{1/4} ¼^{1/4} E^{1/4} Á^{1/4} D^{1/4} Z^{1/4} j^{1/4} , Á^{1/4} w^{1/4} z^{1/4} g^{1/4} Á^{1/4}.
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Impact of GST on Indian Economy

-Sameera Jabeen

#23/4, 3rd Main, 16th Cross,
LakkaSandra, Bengaluru-560030

Introduction

The Goods and Services Tax or GST came into effect on the 1st of July 2017. The aim of introducing the tax was to replace all the existing indirect taxes with a single comprehensive tax. Through GST, all indirect taxes such as central excise tax, service tax, VAT and entertainment tax were consolidated. This major step has helped the citizens of India to file their taxes easily without the hassles they faced earlier. And, this article will discuss the impact of GST on the Indian economy.

GST: Goods and Services Tax is levied on the manufacturing and sales of goods and services across the country. The tax is charged at every stage of the manufacturing process. GST is applicable for both the customer and the manufacturer. It is a destination-based tax. GST is to be collected at the point of consumption. So, if a product is manufactured in Bihar and is sold in Bhopal, the tax will be levied in Bhopal. Moreover, at every stage of the manufacturing process where value is added to the product, GST is collected.

The types of GST are as follows:

CGST (Central Goods and Services Tax): The tax is collected by the central government on the intrastate sale of goods and services.

SGST (State Goods and Services Tax): The state government collects this tax based on the intrastate supply of services and products.

IGST (Integrated Goods and Services Tax): The tax is charged on the supply of products and services between two states. The taxes are shared between the central and state governments.

Effect of GST on the Indian economy

GST is an indirect tax that is finally recovered from consumers of goods and services, in the form of increase in sale price. Thus every consumer rich or middle class or poor pays same amount of GST for one unit of any product or service he avails in the market in India, the maximum population is of the middle class and lower middle class. It has negative impact on common man in India.

The implementation of GST has significantly affected the Indian economy in many ways. The introduction of GST has no doubt helped merge the taxes of the state and central governments. This has helped remove the effect of multiple taxes. Therefore, the burden of taxes has reduced for companies and customers. Not just this, taxpayers have increased in number and hence, the tax revenues have also increased. The taxation system is now easier to administer. Moreover, small- and medium-sized enterprises are able to enhance their businesses.

The taxation policy of the Indian government has been problematic on two grounds. It has deprived the state of important fiscal resources — both



particularly damaging in the context of the COVID crisis. After abolishing the wealth tax in 2016, which was replaced by a 2 percent surcharge on rich individuals. Corporate taxes were slashed to 22 per cent to attract foreign investors and induce Indian companies to invest. This is troubling because indirect taxes often penalise the poor and the middle class more than the rich. Covid 19 has had severe impact on MSMEs these play a very important role in our country so it should receive government support. MSMEs should try to expand Eg textile manufacturers have moved to making PPE kits Large corporate revenues are expected to drop by 10% or so there will be reduction in sales Sanitizerslike soap ,Dettol so on are disinfectants which attract 18 percent GST also various chemicals packing materials also attract GST rate 18% Reducing the rate on sanitizers as well as other similar items would lead to inverted duty structure domestic manufacturers would be at a disadvantage Lower GST helps imports by making them cheaper. The Goa bench authority has ruled alcohol based hand sanitizers attract 18% GST. The Centre had released over 1.65 lakh crore in 2019-20 as GST

The GST collections in July came in Rs 87,422 crore or 86% of collection after disruptions due to lock down With the gap between the compensation requirement and cess fund likely to widen in current fiscal year and the centre armed with legal opinion it is not under the statutory obligation to make up for shortfalls, the pandemic has created a situation where there is absolute drop in collections

The impact of the virus and lockdown on the economy can be clearly seen in the GST collections, with the first-quarter revenues down 41 per cent over last year. This has impacted the Centre's revenues as well as GST transfers to the States, which have fallen below 14 per cent annual growth rate as promised under the GST law The States' combined annual expenditure can be expected to be higher than the Centre at ₹35-40 lakh crore Additional health and relief spending by the States has led to the States increasingly getting restive about their share of GST revenues. The States get nearly half their revenues of over ₹30 lakh crore from SGST and Central tax transfers , according to assessments made by the RBI and India Ratings

Taxpayers and professionals generally complain about:

- increased compliance burden, especially amongst small assesseees and businesses
- ambiguous regulations
- increased cost of doing business
- administrative lag and inefficient tech infrastructure
- bureaucratic overreach
- quasi-judicial positions filled with Revenue officers (AAR)

Goods and Services Tax (GST) collections may likely witness a slow or even negative growth rate due to the impact on Covid-19 on manufacture, business and consumption



Negative growth in Kerala

Kerala saw negative trends while the upward growth in the rest 11 reveals high volatility, due largely to receipt of ad hoc settlements. The inconsistent collection of revenue, coupled with the uneven IGST remittances and ad hoc amounts, have forced it to constantly depend on Ways and Means sources of funds for meeting monthly, regular and committed expenditure.

The Centre has to compensate the states based on the year-on-year standard growth rate (14 per cent) fixed as per Sections 3 & 4 of the GST (Compensation to States) Act, 2017.

Insufficient balance

Average release of compensation to states per month has increased from ₹4,571.78 crore during 2017-18 to ₹15,062.25 crore during 2019-20. The available money will not be sufficient or available to meet debt due to COVID 19

In order to maintain the targeted 14 per cent growth rate, the combined reduction in SGST and IGST components is sought to be filled by compensation that rose from 14.7 percent to 40.7 per cent

The automotive sector is in a crisis with a drastic decline in production. Over 3.5 lakh jobs have already been lost. Automotive hubs such as Manesar, Pimpri-Chinchwad and Chennai are experiencing a lot of pain. The ripple effects are now being felt across other allied industries. Even more worrying is the slowdown in truck production, which is a clear indicator of a slowing demand for goods and essential commodities. The overall

slowdown has taken a toll on the service sector as well, which has experienced a slowdown in job creation since earlier this year.

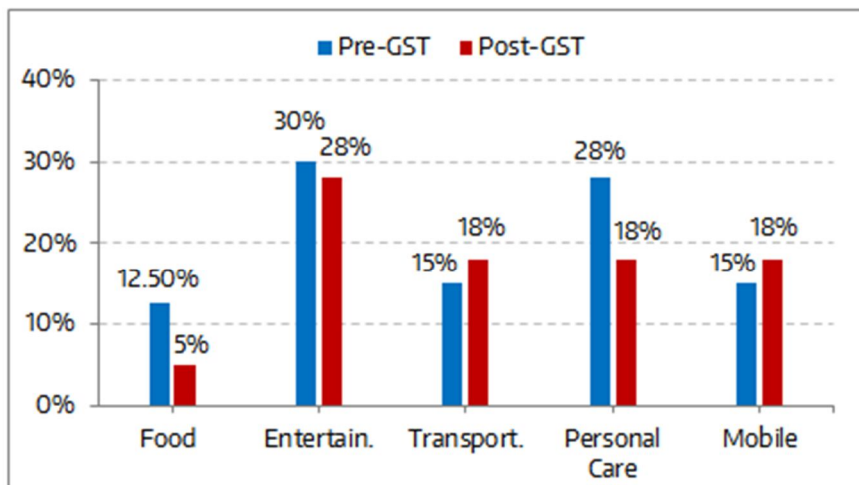
Consumption, which was a reliable engine to propel economic growth, has slowed to an 18-month low. The fact that sales of ₹5 biscuits have declined tells its own story. The drop in consumption is also affected by the limited availability of consumer loans and a drop in household savings. With an increase in GST rate ruled out for now, the focus has shifted to the actual growth rate of taxes collected by states, but subsumed under GST since July 2017. In the three years preceding 2015-16, the growth rate in taxes for non-special category states was just 8.9 percent. This is significantly lower than the 14 per cent growth rate assumed over the 2015-16 base year while committing compensation. The Covid-induced shrinking of economic activity for the past few months continued to have its impact on government's tax collections with revenue under the Goods and Services Tax

The e-vehicle manufacturers in Punjab's Ludhiana have said that even though the sales of e-vehicles would increase after permission of selling and registering them without pre-fitted batteries, the Goods and Services Tax (GST) on the batteries should be reduced.

The sales of vehicles is low as GST on batteries is high there is no registration till battery is There. At the same time, some said that the sales and registration of e-vehicles without pre-fitted batteries would not make much difference in the sales as the price of the e-vehicle with or without the battery

will remain the same. When the batteries came with the e-vehicles, the GST imposed on batteries was around 5 percent, but now it will be 28 per cent if bought separately. The negative impact

of GST on the real estate market is that it increased new home buying price by 8% and reduced buyers' market by 12%.



www.equitymaster.com

Source: cleartax.in



It is compulsory on the part of every business to pay the Value Added Tax (VAT) if the annual turn comes out to be more than five lakh in some states and in some other states it is more than 10 lakh. The different Value Added Tax (VAT) creates confusion for the business.

Telecommunications: The GST impact on the telecom industry has been much talked about. The industry was paying taxes in the range of 14%-15%, but as per the new tax regime, they now fall under the 18% tax bracket. While this has made taxes slightly expensive for the industry, there are benefits like savings on the logistics costs and ease of doing business.

It has shown some negative impact on the real estate market. Due to Goods and Services Tax (GST). There is an increase in real estate prices from 8% to 12%. ... Goods and Services Tax also affected the sector of aviation.

Input cost of Jet Fuel /Aviation Turbine Fuel Jet Fuel is outside the scope of Structured GST Regime, therefore credit of Tax paid on ATF is not allowed which further increases the input cost, thereby increase in Ticket Prices.under GST registration is required to take in every state from where supply is taken place. Thus Carrier has to take registration in every state where passengers are located and from where the flight embarks. The 28% integrated GST on parts of airline

and aircraft while transferring inter-states, this is increasing the compliance cost and most of the engines are on hold with customs which is impacting the smooth operation of the aviation industry. there will be some increase in the prices of most consumer durables. The 28% Goods and Services Tax on Cement industry will certainly make hard expansion choice in the Indian cement industry and will affect their profitability as well. Higher GST rate creating a negative impact on the cement industry and will also take the concrete admixtures manufacturing sector. ONE2019

The introduction of GST resulted in much criticism for the government, most of which was motivated and due to lack of understanding. The previous indirect tax system was one of the most disadvantageous tax system anywhere in the world. It allowed the centre as well as the state to levy several taxes on goods and services. GST eliminated this inconvenience and replaced it with a single tax.

E-Commerce: The GST impact on e-commerce has been mostly positive and is expected to further help the Industry grow.

Pharmaceuticals: GST impact on the pharma industry has been neutral. With GST, India has now become level playing field for the drug makers. It has simplified the tax structure and is also improving medical tourism.

Telecommunications: The industry now has to pay 18% tax bracket. Which is expensive for the industry, there are



benefits like savings on the logistics costs and ease of doing business.

Textiles: The textile sector rejoiced with the introduction of GST. With benefits like a break in the supply of input credit chain, reduced manufacturing costs, and input credit on medical goods, GST impact on the textile industry has been positive.

Agriculture: Agriculture is one of the biggest contributors to the Indian GDP with around 16% coverage. By eliminating a host of indirect taxes, GST impact on agriculture has also been mostly positive.

FMCG: The GST has eliminated the need for FMCGs to have multiple sales depots, allowing the sector to experience considerable savings from distribution and logistics costs. Moreover, the GST impact on FMCG sector has brought down the tax rate in the sector from 24%-25% to 18%-20%.

Reduced Production Costs

Before GST, cascading taxes were a big problem for manufacturing companies. Each time you bought or sold products, you had to deal with multiple taxes, including VAT, entry tax, and central sales tax. Because of the way these duties were arranged, your company ended up paying tax on other taxes.

GST eliminated these cascading taxes, automatically saving you money. It also created the input tax credit to help lower your tax bill. Under the old system, many of the taxes you paid were not available as a credit.

Under GST, the process is much easier. vendors and customers can pay the same GST rate from where they are

located the service industry is heavily impacted with the onset of corona-virus in India.

Indirect taxes have always been contributing more than direct taxes to the Government's Revenue. Services solely contribute a major part of the whole Gross Domestic Product (GDP), subsequently; it shows the major contribution of Services in taxes also. Service sector does not only dominate the GDP contribution but attracts the foreign investment towards the Indian Economy.

Conclusion

References



**Karnatakadalli Dairy Abhivruddhiya Bagge Ondu
Aitihasya Mattu SankhyaShastriya Vishleshane-1947 -
2018**

-Amar S

PEÁĐI pz ° qij C©a:CAiÄ ŠUI MAZÄ Lw°Á1P aÄvÄ ,ASÁ±Á1ÄAiÄ «±Ämu-1947 jAz
2018

-C^aÄgï.J, i

„AU¼EgÄ «±«zÁp®AiÄ, eÁ£“Ágw,

C^aÄEvð(Äbstract)

PEÁÐIPz° °EÄUÁjPAiÄÄ °ÄU CÖa¦: °EÄCvÄ. °EÄUÁjPAiÄ «PÁ, aÄVÄ
 "¼a tUIAi° PEÁÐIP qÉj CÖa¦: uUÄÄ (KDDC) a»1z ætðAiÄ ¥Ávz SUÍ
 «±Ä¶, ÁVz. ¥EaðCaz »rzÄ (1947 jAz 2018) PEÁÐIP ,°Páj °ÁRÄ GvÁzPg
 aÄAq¼AiÄ ,Á¥E PÁiÄðÄÄiAiÄ agU °ÄU °Av °AvAÁV PEÁÐIPz° qÉj CÖa¦:AiÄÄ
 «PÁ, aÁ-ÄvÄ JAŞÄZEÄ F ÄREaÄ «aj, ÄVz. PEÁÐIPz° qÉj CÖa¦:U aÄE, EgÄ
 aÄ°ÁgÁdg PÆqÄU °ÁUÆ CagÄ ¥jZ-Ä1z ¥±ÄU¼ v½, PEÁÐIPz° ,½ÄAiÄ v½U¼
 fÄaÄgÄ °AaPAiÄ «ag E°z. ¥AZÁÁ¶ÐP AiÆÄdEU¼ aÄÆ®P aÄvÄ D¥gÄµEÍ ¥qíE
 aÄÆgÄ °AvU¼EÄ PEÁÐIPz° CÆÄµÄEUÆ½1zÄzg ¥wPÆ® ¥juÄaÄU¼ SUÍ °ÁUÆ
 2008 jAz 2019g agvE PJAj¥íE qÉj ,°Páj ,AWU¼Ä °ÁRÄ GvÁzP ,z,ig
 CAQ-CA±U¼EÄ «±Ä¶, ÁVz.

Keywords: PJAJ, C^aÄvī a^ao¹ v^{1/2}, «± ÄÄP, ÄAZ^aÄP, ÄiÄÄd, D^ggÄµi Äq, key village schemes, Gosodan, C^aÄÄ¹ aⁱÄz, Prr¹, JÄirr©.

! ÄpP:

°ÉÁÚÁJP C@°!ÇAi° PEÁÐIPa vEIZÄ Dz Lw°Á¹P »E¹AiÉÄ° °EAÇz.
 ¥E°ð Ew°Á,z PÁ@WIZ° ¥ÁtU¼ÉÄ ¥¼V,ÁaIZÄ £ª ²-AAiÄUz MAZÄ @PtªÁVvÄ.
 £ª ²-AAiÄUz CªÇAi° CEÄP,ÁPÄ ¥ÁtU¼ª aÄE¼AiÄ Cª±ÄµU¼ª PEÁÐIPz° ¥v
 °Z-ÁVz. ¥ÁaÄE PÁ@z° °ÉÁÚÁJPAi° S¼, -Áz °,Ä, JªÄ UËªª aÄvÄ CAV,ÉÄ
 ¥qzÄPªE¼AwzGÄ. ¥ÁaÄE PEÁÐIPz° eÄEªªAGÄU¼ª aÄÄ - z¼½, DPªt Cxªª
 a±¥r¹PªE¼aIZÄ, ÁªiÄE, AUWaiiÄ-ÄvÄ. ¥ÁtU¼EAÇU °EÄGär, v «Ägg £E!UÄV
 «Äg P@AU¼ÉÄ, Á!¹, aÄgz° aÄrzaJU UËªª, °, -AUÄvVÄ. UÄ«Ät DyðPvAiÄ
 JggÄ °ÉÄ@SÄU¼ÉÄ °EAÇz. MAZÄ PªAiÄzg aÄvEAZÄ °ÉÁÚÁJP. Pª aÄvÄ
 °ÉÁÚÁJPAiÄ ¥q,g, ASÄÇv ZIÄªnPU¼ÁVª. PEÁÐIPz° S°ª¥Ä@Ä, t aÄvÄ



aiáziaā gívga vāā DzÁAiāz āāē@aÁV ¥±ā, AUĒā¥Ē, °ēĒUÁjP, PĒā½, ÁPÁtP
 āāAvÁz ZIāⁿPU¼ĒĀ C^a@A¹zÁg. 2001 g eĒĒāāgā dĒUtw ¥PÁg “Ágvz°
 452.5 z±@P eĒĒāāgĀU¼ĒĒ Evā. “Ágv^a Erā dUwĒ° CvAv °aĒ eĒĒāāgĀU¼
 ,ASiAiĒĒĒ °ĒAċz. CAzg dUwĒ MIā eĒĒāāgĀU¼, ASiAiĒĒ 700 z±@PU¼ÁVzĒ
 Czg° 175 z±@P CAzg ±ÁPq. 25 gμā zĒU¼Ē “Ágvz°^a. “Ágvz° eĒĒāāgĀU¼
 ,ASi āāvā ai«zivAiĒĒĒ zĒ±z Evg gÁdU¼U °ĒĒ°zlg aēĒāP āĒlz°
 C^a@A¹vÁVz. F eĒĒāāgĀU¼, °ÁAiĒĒĒ PĒĒ “Ē«ĒAiā, ÁUā^a½U, ÁjU, Áā,
 UĒSg °ÁUĒ ¥±ā āāvā JāU¼Az, AU»¹z °ÁĒĒĒ ĒUg ¥zĒ±z Uā°PjU «vj, Áā
 PÁAiāāĒĒĒ °ÁĒĒ MPĒĒU¼Ē aiāqāVz. PĒÁĒIPz° °ēĒUÁjPAiĒĒ, aiādz zĒS@
 āUdz^ag, ÁaiāfP-DyĒP ¥UwAiĒĒĒ Gvāf, ÁVz. PĒĒ āāvā °ēĒUÁjPAiĒĒ PĒÁĒIPz
 DyĒPvU ±Ē.5.1 gμā PĒqĒUaiĒĒĒ āāqāVz. “Ágvz° EAZā, Áaiāgā 2 PĒĒNVav °Zā
 dĒgā vāā zĒĒAċĒ fāāĒz° °ēĒUÁjPAiĒĒĒ C^a@A¹zÁg. “ÁgwāAiāgā ¥wċĒ, gā, j
 °Á°Ē @“ivAiĒĒ 375 UāU¼Ē zĒ±z° 19 PĒĒn zĒU¼Ē āāvā 11 PĒĒn JāU¼Ē
 EgS°ĒzAzā, «ĒĒPU¼Ē āāē@P CAZāf, ĒÁVz.

PĒÁĒIPz° °ēĒUÁjPAiĒĒ “¼^atU.

PĒÁĒIPz° °ēĒUÁjPAiĒĒ “¼^atU āāvā «Pā, āĒĒ F P¼VĒ 6 °AvU¼ āāē@P
 w¼AiāS°Ēzā CāU¼Azg.

1. ÁvAvā ¥Ēāā
2. ÁvAvā ĒAvg AiāU
3. ¥AZāĒĒP AiĒĒĒU¼ āāē@P qĒj C@āċĒ
4. «± “ĒAQĒ Ēg«ĒĒAċU PĒÁĒIP qĒj C@āċĒ AiĒĒĒĒ
5. QĒg PÁAwAiā āāē@P qĒj C@āċĒ
6. PĒÁĒIP, °Pāj °ÁĒĒ GvÁzPg āā°āāq½ (PJAJ¥i), Á¥Ē.

1. ÁvAvā ¥Ēāā:

ÁvAvā¥Ēāā AiāUz° PĒÁĒIPz zQt “ÁUz °¼Ē āāē, Ēgā ¥zĒ±z°
 °ēĒUÁjPAiĒĒ CwzĒq C,AWnv ā@Aiāā-Ēvā. °ēĒUÁjPAiĒĒĒ C@āċĒ¥r, @ā
 āāē, Ēgā āā°Ágādg D½PAiā PÁ@Wl z° °@āgā ¥AiāvU¼ĒĒ aiārzgā. CAċĒ ¥āāĒR
 v½U¼Azg CāĒv āā°Ē āāvā °¼Pāgī, CāĒvī āā°Ē v½Aiā C@āċĒUÁV
 2ĒgAU¥lt z° Pāgā JAS° āāē, Ēgā āā°Ágādg aPzāāgāAiā MqAiāgī Cāgā CāĒvī
 v½ āāvā °¼Pāgī v½U¼ĒĒ āā°uUÁV Dq½v EĒASU¼ĒĒ (1572-1600) g°
 ,ÁĒĒzlgā. Ezā āāĒAċĒ ċĒU¼° ¥±ā, AUĒā¥ĒĒ EĒSAiāV dĒvā½vā. F v½U¼
 S@āzĒĒAiĒĒĒ PApāgā Ēg, gādg MqAiāgī, aPzāāgāAiā MqAiāgīgāgā ¥ĒĒvā»¹zlgā.
 °ēĒUÁjPAiĒĒĒ C@āċĒ¥r, @ā āāē, ĒjĒ āā°Ágādgā gādz° ,AvāĒĒv GzĒ±PÁV
 «@Pt v½U¼ĒĒ ¥jz-Ē¹zlgā. āāē, ĒjĒ° ,Á¥¹zĒ “gāAiāPg ¥āāiāā”, Á¥ĒAiā
 āāē@P CāĒvī āā°Ē v½Aiā C@āċĒU °aĒ ¥āāĒRivAiāĒĒ āārzgā.

РѦЃµР – 1

v ½ U ¼ Ä	¥ z Ä ±	f ½ U ¼ Ä
C a Ä v i a Ä o i	z Q t P E Ä ð l P z Ä U	a P i a Ä A U ¼ E g Ä z a a Ä U i, z Ä a t U g, a v z Ä U ð, v Ä a Ä P E g Ä, o Ä, E
o ½ P Ä g i	o ¼ Ä a Ä E, Ä g Ä Ä U	a Ä E, Ä g Ä, o Ä, E, a Ä A q i, v Ä a Ä P E g Ä, g Ä a Ä E U g, a P i a Ä A U ¼ E g Ä
r Ä i Ä V	a Ä g Ä o a Ä q ¥ z Ä ±	© Ä z g i, P R Ä U ð
a Ä Ä i q i V q	a Ä Ä i q i ¥ z Ä ±	G v g P E i q, z Q t P E i q, G q Ä i, z a a Ä U i, a P i a Ä A U ¼ E g Ä, o Ä a Ä j, P E q U Ä.
© Ä j	z Q t a Ä o Ä g Ä µ ¥ z Ä ±	¼ U Ä Ä, © e Ä ¥ Ä g, Ä U o P E Ä m i, z Ä g a Ä q, o Ä a Ä j, U Ä o U ð.

2. $\Delta v_{\text{avg}} \text{ qđi } C^{\text{a}}_{\text{c}} :-$

3. ¥AZªÁŦðP AiEÃd£U¼ª ªÄE®P qij C©ª¢:

PÅZ aÄVÄ gÄdi , PÄögu¼Ä ¥AZ aÄ¶öP AiEÄÐU¼ aÄE®P PEÄö | Pz °
 °EÄUÁ | PAIÄ C®aÄ¶AiEÄÄ , ÄC¹z. ¥AZ aÄ¶öP AiEÄÐU¼ aÄE®P q: j , ASÄcv



ZIānPU¼Ē Cĉāĉr, Āāzā F AiĒdĒiā ¥zāĒ GzĀāVz. UāĀā t ¥zā±z °ĀĒĒ ĒUg ¥zā±z dĒjU «vj, Āāzā PĒĀĪPz° qĒj GzĀā °āĀ, āĀ, ĪU¼ĒĪ JzĀj, Āwz. CāĪU¼Azg, °ĀĒĒĒ, AU», Āā JĒPĀPĪ, ĀzĒU¼ PĒgv, ĀjU PĒgv, Ā, Ī, Āā WIP āĀVā, ĒĒĒz PĒgv, PĒĒĀiĀv PĀĀĀPg PĒgv, vĀAwP PĒgv, ĀĒz, ĒĒĒz PĒgv ĒĒĒ āĀAvāz, ĀāĀĀU¼ĒĒ S U°j, ĒĀ PĒĀĪP, PĀĒgā ¥AZ āĀĪĒP AiĒdĒU¼ĒĒ DgĀĒvā.

P¼VE PĒĀµPz, °ĀĀiĀĀz Ēāā ¥AZ āĀĪĒP AiĒdĒU¼ āĀĒP PĒĀĪPz° qĒj Cĉāĉr ĪµĀ CĒĀzĒĒĒ, PĀĒg āĀrz JĀzā w¼ĀiĀS °Āzā.

PĒĀµP -2

AiĒdĒiā Cāĉ	qĒj Cĉāĉr PĒĀnU¼°	
	ĉqĀUqĀiĀz °t	āZāiĀrz °t
I(1951-56)	22.00	16.00
II(1956-61)	55.94	33.47
III(1961-66)	90.52	77.00
AP (1966-67)	67.47	59.70
IV(1969-74)	233.10	154.26
V (1974-78)	437.54	232.46
VI (1980-85)	396.56	337.42
VII (1985-90)	467.94	476
VIII (1992-97)	1300	1123
IX (1997-02)	1545.64	592.69
X (2002-07)	1745	1049.63
XI (2007-12)	5293.52	4870
XII (2012-17)	14179	-

SOURCE: Annual Report of Development of Animal Husbandry and Dairying 2005-2012-13. AP = Annual Plan

F āĀ°Ē PĒĀµPz° (1951-2017) āgvĒ ¥AZ āĀĪĒP AiĒdĒiā āĀĒP PĒĀĪPz qĒj Cĉāĉr āiā»wāiĒĒ M¼UĒArz. āĒzĒ ¥AZ āĀĪĒP AiĒdĒiā° 22 PĒĀn gĒ¥ĀĒĒU¼µĀ CĒĀzĒĒĒ ĉqĀUq āiāqĒĒĒ. Ēzg° 16 PĒĀnU¼µĀ °t āĒĒ qĒj Cĉāĉr āz āiāqĒĒĒ. āĒĒĒĒ ¥AZ āĀĪĒP AiĒdĒiā° 90.52 PĒĀn °tz Ēg«āz 1965g° gĀĪĀiā qĒj Cĉāĉr āĀq¼ĀiĒĒ, ĀĪ° °ĀĒ MPĒĪU¼U vĀAwP Ēgā āĀqĒĒ 72 PĒĀnĀiĒĒ MzV, ĒĒĒĒ. 1992-97 g° 8ĒĒ ¥AZ āĀĪĒPĀiĒdĒiā āĀĒP 1300 PĒĀn °t āĒĒ āĀdĒĒ āiāqĒĒĒ. F °t āĒĒ S¼° ¥Ēā āĒziĒĀiā D, vU¼, ĀĒĒ DzĪU āĀqĒĒĒ. 12ĒĒ ¥AZ āĀĪĒP AiĒdĒiā 2012-17g° ¥ĒgĀĒĒĒĒ. F, āzĒĒ° ¥Ēā, āUĒĒĒ ĒĒSU 14.179 PĒĀn °t āĒĒ ĉqĀUq āiāqĒĒĒ. F CāĀiā° UĒĒĒ āĀVā qĒj CĉāĉrĀiĒĒU gĀĪĀiā UĒĒĒ, āvĒĒĒv āĀVā qĒj Cĉāĉr PĀĀiĒPāāĒĒ «°ĒĒUĒ¼° PĒv UĒĒzāguU °āĒ DzĪĀiĒĒ āĀqĒĒĒ.



4. «± ¨ÁAQE £g«£ÆAΦU P£Áð IPz ° qij C©ª¢ AiÆÃd£:

«±"ÁAQE Ég«EÆAÇU PEÁÐIPz° qēj C@atç) AiÆĀdEAIĀĒĀ 1975g°
 ¥ÁgAÇ, Ā-ĀvĀ. «±"ÁAPĀ āĀvĀ CAVgĀŦĀĀiĀ C@atç) ,AWz °tPÁ1E Ég«EÆAÇU
 PEÁÐIPz° ,āU qēj C@atç) AiÆĀdEAIĀĀ C1vP ŠAÇvĀ. EzĀ qēj GZiāZ gZE
 āĀvĀ vvUy4ĒĀ ¥ĀEgī gZEUĒ½1vĀ. r, AŠgī 1974g° PEÁÐIP ,PĀðgā «±"ÁAPĀ
 āĀvĀ CAVgĀŦĀĀiĀ C@atç) ,AWzÆAÇU ,āU qēj C@atç)UĀV M¥Az āĒĀ
 aiĀrPÆArvĀ. Ezg ÇEAIĀ ,AWnv °Á°E ±ĀRgu, ,A,gu, aiĀgĀPm, vĀAwP M¼°jā,
 ,AvĀEÆC@atç) ,āĀvĀ eĀĒāĀĀgĀU¼ DgĒĀUiz PÁ¼f M¼UÆArvĀ. F AiÆĀdEAIĀ° 1800
 qēj ,°PÁj ,AWUy4ĒĀ 04 °Á°E MPÆIUyĀ MAZĀ gĀdī āĀlz qēj C@atç) ōUāāĒĀ
 ,Āĭ, Ā-ĀvĀ. 02 ,½ZAIĀ ¥AiĒĀUĀ@AIĀUy4ĒĀ ,Āĭ, Ā-ĀvĀ. PEÁÐIP ,PĀðgā
 CPÆĀŠgī 1974g° PEÁÐIP qēj C@atç) ōUāāĒĀ ,Āĭ, Ā-ĀvĀ.

5. Qiǎg PÁAwAiǎ aÄÆ®P qǐj C©aǐ¢:

[illegible]

РÆАӀмР 03:

РѦЃĐ ІРz ° D¥gǺμ£İ ¥qi£ Ew°Á, z \$Uİ ,AQ¥ ªіÁ»w.

«μΑιΑΥ¼Ä	ΔΥgÄμΕiΥqí 1970-1981	ΔΥgÄμΕiΥqí 1981-1985	ΔΥgÄμΕiΥqí 1985-1996
MPÆIU¼, ASi	4	11	13
q: j, °PÄJ(DCS) ¼, AWU¼, ASi, ASi	1800	5000	7000
°Ä@AGVÄZPg, z, gÄ («Ä°AiÄEiU¼°)	1740	10.2	12.11
¼, gÄ, j °Ä°E ±ÄRgu (¢EP/ P f)	0.93	7.82	16.81

SOURCE: www.Nddb.org/National Dairy Development Board, Bangalore

DƳgǎmEī ƳqīE ƳjuǎǎǎV qǐj , °Pǎj , AWU¼ , ASǐǎǎ MPǐE , ASUǎǎ
 aμðCǎZ aμðP ǎgǎvgǎǎV °Z¼ǎǎǎǎ. 1970-1981 g°4 °ǎǎ MPǐEU¼Eǎǎ
 M¼UEǎrZ 1985g° DƳgǎmEī ƳqīE Cǎvz ǎǎ¼U PǎǎǎǎPz° °ǎ°E MPǐEU¼
 , ASǐǎǎ 13 P KǐP Pǎrǎ. 1970-1981 g° qǐj , °Pǎj , AWU¼ , ASǐǎǎ
 1800jǎZ 5000ǎgU KǐPǎǐǎǎǎǎǎ. QǎgPǎAw Cǎvz ǎǎ¼U DƳgǎmEī ƳqīE 7000
 .ǎ«g qǐj , °Pǎj , AWU¼ Pǎǎǎǎǎǎǎǎǎ. ǎwz. DƳgǎmEī ƳqīE- 1g Cǎǎǎǎǎ



PEÄDIPz°E ,gÁ,j °Á°£ ±ÄRguAiÄÄ Ç£ªÇAZP| 93 ,Á«g ,AU°uAiÄÄ 1981-
1985g° 7.82 @PP| °Á°£ ±ÄRguAiÄÄ ªÄÄnvÄ. QÄgPAAw-3 CªÇAiÄ° PEÄDIP
gÁdiz °Á°£ ±ÄRguAiÄÄ 16.81 ®P v@Ä|vÄ JASÄZÄ UªÄÊÄ°ðªÄZZÄ. PEÄDIPz°
CªÄÄ¬ªªÄZjAiÄ qÄj ,°PÄj ,AWU¼Ä AiÄ±¹AiÄV PÄAiÄðªªÄ»,ªªAvªªrzQÄwð
qÄªvÄð,iPÄjAiÄËªªªª PEÄDIPz QÄg S°iJAZÄ SÄW ¥qÇgÄª²ÄJA.«Pª¥£ªJU
,®Ävz. °ÁUÄV D¥gÄµ£i¥qiPÄAiÄðPªAU¼ªªÆ®P PEÄDIPz qÄj GziªZ°P¼Z
ÊÄ®Ä Z±PU¼AZ C®ªÇAiÄÊÄÄ,ÁÇ¹Z.

6. $P\acute{E}\delta IP \text{ } ^\circ P\acute{A}j \text{ } ^\circ \text{\AA}\text{\AA} Gv\acute{A}zPg \text{ } ^a\text{\AA}^\circ \text{\AA}^a\text{\AA}Aq\frac{1}{2} (PJAJ\text{\AA}i) \text{ } \text{\AA}\text{\AA}\text{\AA}.$

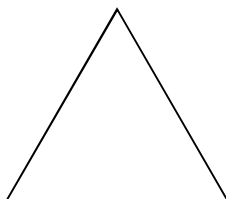
PEÁÐIPz° °EÄUÁJP °¼atU aÄVÄ «PÁ,z PÆEAIÄ °AvªAzg, PEÁÐIP
,°PÁj °ÁÖÄ GvÁzPg aÄ°ÁªÄAq½AIÄ GUªÄ EzEÄ PJAJ¥I JAZÄ ,° PgAIÄAvAg.
PJAJ¥I PEÁÐIPz °ÁÖÄ GvÁzPgEÄ ¥w¢,Ä gÁdiz givg “C¥Pi ,°PÁj
,A,“AiiÁVz. PEÁÐIPz° ,°PÁj ,AWa PÆqUÄ fAIÄ PÆrUAIÄ° 1955g
EÆAZÄ-Ä, -Ä-ÄvÄ. 1974g° «±AIAPÄ aÄVÄ CAVgÄAIÄ CÖat¢,AWz °tPÄ,Ä
Eg«EÆAÇU PEÁÐIP qEj CÖat¢, UÄÄ (P.r.r.1)ªEÄ ,Ä, -Ä-ÄvÄ. 1983g°
PEÁÐIP qEj CÖat¢, UÄÄªEÄ PEÁÐIP ,°PÁj °ÁÖÄ GvÁzPg aÄ°ÁªÄAq½
(P.JA.J¥I) JASÄZÄV EÄªPg t aiÄq-Ä-ÄvÄ. aÄÄ 01 1984g° P.JA.J¥I.
“AU¼ÆjE° C1vP SAcvÄ. ¥Sªj 13 1983g° “EAc PÄ¥EÄðgÄmi “ÄiÄqI JAS
ÄiÄPÁj aÄAZAIÄEÄ P.JA.J¥I. eÁJU vAZÄ °ÁÖÄ aÄVÄ °Á£ GvEiU¼EÄ gÁdi aÄVÄ
CAvgi gÁdiU¼° aiÄgÁIaiÄqAwz. PEÁÐIP ,°PÁj °ÁÖÄ GvzPg aÄ°ÁªÄAq½
PEÁÐIPZÄZiAv 14 fAI° ÁÖÄ MPÆI aÄVÄ 23 ,Ä«g °½U¼EÄ M¼UÆArz. EAZÄ
14512 qEj ,°PÁj ,AWU¼Ä EÆAZÄ-ÄiZÄ, 24.74 ®P °ÁÖÄ GvÁzPg ,AW¢Az
¥w ¢E ,ÄaiÄgÄ Ujµ 84.44 ®P P.f. °Á£ ±ÄRguAIÄ° vÆqVz. 18.12 PÆÄN ¥w
¢E°ÁÖÄ NPÆI U¼Ä °ÁÖÄ GvÁzPjU °tªEÄ ¥ªaw,Äwa. 87 SUAIÄ °Á£
GvEiU¼EÄ vAiiÄj, -ÄUÄwz. °AUÄV PEÁÐIP ,°PÁg °ÁÖÄ GvzPg aÄ°ÁªÄAq½AIÄ
°EÆAZiÄZ° gÄµz° 2EÄ ,ÄEz°zÄ, zQt “Ägvz° °Á£ GvZÆAIÄ° ¥xªÄ
,ÄEªEÄ P.JA.J¥I ¥gzÄPÆArz.

Ρ.ΙΑ.ΥΠΙΕ «ΕΛΛ.

P.JA.J¥i. C^aÄÄTⁱ aⁱÁZj Cx^aÁ D^EÄZi aⁱÁZj ,^oPÁj gZ^E-ÄÄZ
¥^oÄ«vU^EÄrz. P^EÄÖI^Pz^o ,^oPÁj vU^UÄÄ Dzj¹ F ,AⁱÄÄ 3^oAvz^o
«ÄÄU^EÄrz.

1.РЈАЎі

2. f⁻Á °Á®Ä MPÆ I U¼Ä



3. qĕj , °PÁj , AWU¹/₄Ä



1. **P.JA.JP:** gÁdì aÁIz° PÉÁðIP, °PÁj °Á@Á GvÁzPgÁ aÁ°ÁaÁq½ EzÁ gÁdiz °Á@Á GvÁzPgÁ Æw¢, Áa CÆPÁ, A, ÁiiÁVz.
2. **°Á@Á MPÆIU½:** f-Á aÁIz° °Á@Á GvÁzPg MPÆIU½Az, AWnvÁVzÁ gÁeÁizÁziAv 14 °Á@Á MPÆIU½a. CªU½Azg; "AU½ÆgÁ, aÁÆ, ÆgÁ, aÁq, °Á, É, zQt PÉIq, vªÁPÆgÁ, UÁ@UÁð, PÆÁ-Ág, ZÁªgÁdEUg, zÁgªÁq, 2ªªÆU, gÁAiÁZÆgÁ, "¼UÁ«, «dAiªÆg °Á@Á MPÆIU½Á. °Á°É ±ÁRgu, A, j, Áa, aÍgÁPm «, gu, CÉÁzÁEU½ °Aaz, °Á°É GvEU½Á vAiÁj, ÁaIzÁ Ezg ¥zÁE PÁAiÁðªÁVz.
3. **qÉj, °PÁj, AW:** qÉj, °PÁj, AWª PJA.JPÉ aÁÆ@ v¼°¢, A, ÁiiÁVz. (**Grass Root Level Organisation**) EzÁ UÁ«Át "ÁUz ¥zÁz° , AWnvÁVz. EzÁ ÆÁx«ÁP °Á@Á GvÁzPg, °PÁj, AWªAzÁ, ° PgAiÁvÁg. PÉÁðIPz° 14512 qÉj, °PÁj, AWU½ C¹vz°ª. °Á@Á GvÁzPjAz °Á@ÉÁ, AU», ÁaIzÁ. ¥±ª D°Ág MzV, ÁaIzÁ, ¥±ªªzIqÁAiÁ, Áa, PèV U"ðzÁguÁ, Áa, °Á@Á RjÁ¢¹ 2Áv°Pg t PÁAZU½U gªÁ, ÁaIzÁ, ° tªÉÁ S lªÁq aÍqªªIzÁ Ezg ¥ªÁR PÁAiÁðªÁVz.

Fªª°ÉªªgÁ °AvU½ Dq½vª °Á@Á GvÁzPjAz ÉÁgªÁV DAIÁAiÁz ¥w¢U½Á, Dq½vªªq½, z, gÁ, ¢zÁð±PjAzªªvª ÉEPg ±ª»U½Az PÁAiÁðªªª», @qÁvz. F P½VÉ PÆÁµPzªªÆ@P Éªª 2008jAz 2019gªgvÉ qÉj, °PÁj, AWU½ «PÁ,ªªvª °Á@Á GvÁzPg, z, g, ASªAiÁÉÁ w½AiÁSªªzÁ.

PÆÁµP 04

aµð	qÉj, °PÁj, AWU½, ASª	°Á@Á GvÁzPg, z, g, ASª (@PU½°)
2008-09	9924	20.09
2009-10	10415	20.34
2010-11	10923	20.83
2011-12	11568	21.52
2012-13	12072	22.23
2013-14	12334	22.48
2014-15	12928	23.08
2015-16	13287	23.51
2016-17	13646	24.05
2017-18	14256	24.60
2018-19	14512	24.74

ªªÆ@: PJAªÉªªÁðPªg¢ 2008-19



2008-09 g° qĕj , °PÁj , AWU¼ , ASĭ 9924, °Á®Ä GvÁzPg , ASĭAiÄÄ
20.09 ®PPĭ °Z¼ªÄ¬ÄvÄ. 2013-14g° 12334 qĕj , °PÁj , AWU¼ª
£ÆAZÄ¬Ä¹PÆArzªĭ. 22.48 ®P °Á®Ä GvÁzP , z, ĭg , ASĭAiÄÄ , °
KjPAiĭÄ¬ÄvÄ. 13646 °Á®Ä , °PÁj , AWU¼ª 2016-17 g° PÁAiĭÄðZguAiĭ°zĭªĭ.
24.05 ®P °Á®Ä GvÁzPg qĕj , z, ĭvª£ÄÄ ¥qzÄPÆArzĭgÄ. 2018-19£Ä , Ä°£°
qĕj , °PÁj , AWU¼ , ASĭ 14512 £ÄÄ 24.74®P °Á®Ä GvÁzPg£ÄÄ PJAj¥ĭ
°ÆA£vÄ.

G¥,A°Ág: PEÁðIPz° qĕj C©ªĕĬ aǻǻ ¼atUAIǻǻ °RªÁgǻ °AvU¼ aǻÆR©
«Pǻ,UÆArgǻªĭZǻ zĕq¥qǻvz. D¥gǻµĕİ ¥qĭ-2, 1984jAz 1996g CªĕAi°
PEÁðIP qĕj C©ªĕĬ aǻAq¼,Áı¥E-ǻAz °İÆAUjPAİǻ° aǻ°vgªÁz Sz-Áa uAIİÆǻ
°ÆAĕvǻ. Ezǻ PǻAz aǻǻ gǻđĭ,PǻðGU¼ AiÆǻđ£ aǻǻ PǻAIİðPªAU¼Æǻ
CEǻµÁEUÆ¼,ǻª AiÆǻVAİİǻV PǻAIİðªªđ»¹z, PEÁðIPz° qĕj C©ªĕĬAIǻǻ ,°Páj
vvU¼Az “¥wAiÆSgǻ J©juǻV aǻǻ J©gǻ ¥wAiÆSjuǻV” (Each for all and for each)
JAS zǻİAIİzÆAĕU °ÁRǻ GvǻzPg ,ÁªıǻfP, DyðP ¹wUWU¼Æǻ S©UÆ¼,ǻª
,ǻz£ªÁV qÆ¥UÆArz.

UAX I Ät:-

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P.Lankeh Avara Sankranti: 'Natakada Naya keeyate Haagu Jateeyate'

-P.B.Madhu

! . @AP±i C^ag , APÁAw: 'ÉÁIPz ÉÁIiQÁiAv °ÁU/E eÁwÁiAv'

- ! . @ ^aÁzÁ

PÉiq , °ÁiÁP ¥ÁzÁ¥PgÁ

±ÁAw P⁻Á, «eÁÉ, ^aÁvÁ ^aÁtdi PÁ⁻ÁdÁ, ^aÁ¼^a¼.

DzÁp PÉiq Lw^oÁ¹P ÉÁIPz ° @AP±g “, APÁAw” «²µ ^aiÁz jU , Ág^aAv^oÁzÁ. F ÉÁIP^aÉÁ Lw^oÁ¹P^aAzÁ , ½ÁPj, Á^aAw@^aÁzg/E ^a, Á«É ZÁjWP »É⁻ÁiÁ ° U^aÁ, Cg^aÁAw@. PÉiq ÉÁrÉ ZÁjWP ^aiQU^¼Áz S, ^at, C^d¼gÁ ¥Áv^aUðz ° gÁ^azÁ. °ÉgqÉÁiÁ ±v^aiÁÉz «Ág±^a Z¼^a¼ÁiÁ ¥⁻Á^a - ¥juÁ^aÁU¼Á ÉÁIPz ° ZZðU UÁjAiiÁVgÁ^azÁ. °g¼ÁiÁ ^aÁzÁ^ag, g ^aÁP¼ ° CAzÁ Éqz «^aÁ^oz ^aiÁz jÁiÁ ¥tÁiÁ PvÁiÉAzÁ ÉÁIPz ° É^oÁ⁻ÁVgÁ^azÁ EµÉÉ F ÉÁIPi ZÁjWP »É⁻ÁiÁAzÁ UÁwð, ⁻Ávz. Dzg F Lw^oÁ¹P , AUw , vU¼ÉÁ ÉÁIP^aggÁ , ÁAPÁwP^aÁV S¼¹PÉArgÁ^az jAz ÉÁIPz ^a, Á , ^aÁPÁ ° É^aÁVÁiÁE ¥, P^aÁUÁvz.

ÉÁIPz ÉÁIiQÁiAv

°ÉgqÉÁiÁ ±v^aiÁÉz «Ág±^a Z¼^a¼ÁiÁ ¥⁻Á^a-¥juÁ^aÁU¼Á ÉÁIPz ° ZZðU UÁjAiiÁVgÁ^azÁ ÉÁIiQÁiÁ ¥⁻Á^aÁvz. ! . @AP±g ‘, APÁAw’ ÉÁIP «²µ^aÁvzÁ. Ezg ° É ÉÁIiQÁiÁ CA±U¼ÉÁ ÉÁIPz ^aÁ⁻ CWÁv ¥^aiÁtz ° PÁtS^oÁzÁ. EzÁ F ±v^aiÁÉz PÉiq ÉÁIPU¼ ° CU ±ÁiÁÁ, ^aÉÁ °ÉAÇz JAzÁ °Á¼S^oÁzÁ. , APÁAw ÉÁIPz ¥j^avðÉÁiÁ Wl z ° z¹ P¼ , A, w ^aÁvÁ F ¥j^avðÉÁiÁÉÁ vqÁiÁ@Á Sz PAPT^aÁvzÁv ° ¥w¹vÁz , A, wÁiÁ Éq^a ÉqÁiÁÁv ° °ÉÁGÁiÁ ÉÁIPz PÁz CAzÁ^aÁvz. GµÁ-gÁzg ¥Á^aÁ ¥Pg^a ÉÁIiQÁiÁ CA±U¼ÉÁ °¼z. ^aÁÁ@Á eÁwÁiÁ MAzÁ °ÁqÁV P¼eÁwÁiÁ (, A, wÁiÁ) MS C^aiÁiÁP gÁzÉÉÁ ¥Á«Á, Á^azÁ EzP , ÁQÁiÁvz. MAzÁ °Avz ° F «µÁiÁP ÉÁIP ¥Águ PÁrz. Gµ¼ eÉv , A⁻ÁµuÁiÁ ° vÉqVz GµÁ gÁzÉÉÁ CtQ, Á^a ^aÁÉ@P, »ÁiÁiÁ½, Á^a ^aÁÉ@P C^aÉ PvU¼ ° PÁvÉ ° vÉÁgÁ^a ^aÁÉ@P C^a½U Eµ^aÁz gÁzÉ ^aÁÉ@⁻Év UÁtU¼ÉÁ °ÉgU¼ÁiÁ@Á ¥ÁiÁw, ÁvÁ¼. C^aÉ , ÉÁvÉ »É⁻ÁiÁÉÁ PA¥Á UAS¼ÁiÁV S¼, ÁvÁ¼. vÉ ¥ÁiÁvz ° ÁiÁ±, Á zÉgvÁU , ÁvÉÁ, ÁvÁ¼. Dzg CzÁ PtP^aASÁzÁ gÁz S, ^atÉ^ag ¥⁻Á^az ° °¼ÁiÁ^az g ° w¼ÁiÁÁvz. »ÁU °ÁqÁg °t vUZÁ PÉAqÁ , ÉÁiÁjAiiÁz dAU^a dÉP gÉn ZÉgÁ °ÁQz JAzÁ , A⁻Áµu ^aÁAzÁ^ajzAv GµÁ S, ^atÉ ^aiQv^aÉÁ C@U¼ÁiÁ@Á ¥ÁiÁw¹zÁU, gÁz CzÉÁ vqzÁ S, ^atÉ vAmU SÁz PÉiÁ ° Sg¼PÁz ÉwvAP ¹UZÁ vÉÁgt PnÁ JAzÁ Gzj, ÁvÁÉ. E ° gÁzU Ezí S, ^atÉ °QÁiÁ^aiPÁUÁvz.

ÉAvg ‘GµÁ CzÉÁ ^aÁAzÁ^ag¹zÁU gÁz PÉÁ¥ÇAz °Á^oÁiÁAv C^a¼ Pq v^a¼ÁvÁÉ. GµÁU PÉq C^aÉ Z@É °ÁiÁ Gn¹z. C^aÉ PÉg^aÉÁ °Éqz@, Á^azg °



$\alpha d^a \lambda z$ $g \lambda z \epsilon \epsilon \lambda$ $\circ \epsilon g v g^a \circ$ $A i \ddot{A} \pm, \ddot{A} U \frac{1}{2}, \ddot{A} v \ddot{A} \frac{1}{4}$. F $P t z \circ$ $D v$ $S, a t \epsilon a g$ $1 z \ddot{A} v \phi A z$
 $z \epsilon g$ $G \frac{1}{2} \phi z \ddot{A} \epsilon$. $G \mu \ddot{A}$ $A i i \ddot{A} P$ $v^a \frac{1}{2}?$ $K \epsilon \ddot{A}$ $a i \ddot{A} r?$ $\alpha \alpha \lambda z$ $\epsilon \epsilon$ $\circ \ddot{A} \ddot{A} I P \ddot{A} U \epsilon \circ$ $J A z \ddot{A}$
 $\circ z j z \ddot{A} \frac{1}{4}$. $C \mu g \circ$ $v^a \ddot{A} m \ddot{A} i \ddot{A}$ $, z \ddot{A}$ $, \circ$ $E^a g$ $P \epsilon g$ $P \circ, P$ $, \circ \ddot{A} \ddot{A} i P^a \ddot{A} U^a \ddot{A} v$ $\pm S$
 $D g A^{\circ} \ddot{A} U \ddot{A} v z$. $G \mu \ddot{A}$ $\alpha \ddot{A} \epsilon \ddot{A}$ $\circ \epsilon^- \ddot{A} i \ddot{A}$, $\epsilon \ddot{A} \epsilon \ddot{A}$ $\ddot{A} \circ i t$ $1 \ddot{A}$ $J A z \ddot{A}$ $v \epsilon$ $d \epsilon \ddot{A} \ddot{A} U^a \epsilon \ddot{A}$ $\alpha \ddot{A}^- \ddot{A} z \ddot{A}$
 $\ddot{A} \ll^1$ $g \lambda z \alpha U$ $w \frac{1}{2} 1 z \ddot{A} U$ $g \lambda z$ $C^a \frac{1}{4} \epsilon \ddot{A}$ $z j z^a \ddot{A}$ $J A z \ddot{A}$ $C^a \frac{1}{4}$ $P \ddot{A} \circ \ddot{A}$ $\gg r z \ddot{A}$ $J \frac{1}{4} \ddot{A} i \ddot{A} \ddot{A} \epsilon \ddot{A}$. $D U$
 $v^a \ddot{A} m \ddot{A} i \ddot{A}$ $, z \ddot{A}$ $, \circ$ $\circ Z \ddot{A} U \ddot{A} v z$. $\epsilon \circ P$ $\circ z$ $C^a \frac{1}{4}$ $P \ddot{A} \circ \ddot{A} U \frac{1}{4} \epsilon \ddot{A}$ $C | z \epsilon q \epsilon$ $a \ddot{A} g \ddot{A} \frac{1}{4} \ddot{A}$. $w A z \ddot{A}$
 $\circ \ddot{A} P \ddot{A} \ddot{A} \epsilon \ddot{A} v$ $C^a \frac{1}{4} \epsilon \ddot{A}$ $\neq \epsilon w \ddot{d}$ $S \frac{1}{4}, \ddot{A} \epsilon \ddot{A}$. $P^a \ddot{A} \ddot{A} t$ $P v^-$ $D^a j$, $\ddot{A} \ddot{A} z g \epsilon A \phi U$ $v^a \ddot{A} m \ddot{A} i \ddot{A}$ $, z \epsilon$
 $, \circ$ $P g U \ddot{A} v z$. $g \lambda z \epsilon$ F $j \ddot{A} w \ddot{A} i \ddot{A}$ $\alpha v \ddot{d} \epsilon^- \ddot{A} \ddot{A} z$ $\epsilon \ddot{A} I P^a$ $v \epsilon$ $w \ddot{A} \ddot{A} v \ddot{A} i \ddot{A} \epsilon \ddot{A}$ $\neq q z \ddot{A} P \epsilon A r z$.
 $\gg \ddot{A} U \ddot{A} v$ $E S g$ $a i Q v^a \phi$ $C a g^a g$ $\alpha \ddot{A} n U$ $C \neq j \neq \epsilon t \ddot{d} \alpha \alpha 1 z \ddot{A}$ $C z \epsilon \ddot{A}$ $\neq \epsilon t \ddot{d} \ddot{A} v$, $\circ \ddot{A}$ $\neq g$, g
 $\neq \ddot{A} \ll^1$, $v^a \ddot{A}$ $\ddot{A} v^a \epsilon \ddot{A}$ $\alpha \ddot{A} g v \ddot{A}$ $E \epsilon \epsilon \ddot{A} S g$ $\alpha \ddot{A} \epsilon \circ P$ $\ddot{A} \ll^1 \mu \ddot{A} \epsilon \ddot{A}$ $P n P \epsilon \frac{1}{4} \ddot{A}$ $E S g$ $C \circ \ddot{A} \neq \ddot{A} i \ddot{A} \epsilon$
 $\neq g$, g $\neq \epsilon g P^a \ddot{A} v g z \ddot{A}$ $\ll^1 g \lambda z$ $\phi Q \epsilon^- \circ z \ddot{A} z j A z$ $C^a g$ $\neq \ddot{A} \ddot{A}$ $z \ddot{A} g \ddot{A} v z \circ$
 $\neq \ddot{A} i \ddot{A} \ddot{d}^a$, $\ddot{A}^- \ddot{A} i i \ddot{A} U^a \ddot{A} z \ddot{A}$ $C^a \ddot{A} g$ $\ddot{A} \ddot{A} U \ddot{A} v z$.

$G \mu \ddot{A}$ - $g \lambda z g$ $\neq \ddot{A} \ddot{A}$ $\neq P g t$ $P \ddot{A} \circ \ddot{A}$ $\alpha \ddot{A} i \ddot{A} Q P$ $\epsilon^- \ddot{A} i \ddot{A} \circ$ $\alpha \circ z \ddot{A}$ $C a g^a$ $e \ddot{A} w U \frac{1}{4} \epsilon \ddot{A}$
 $\alpha \ddot{A} i$, $1 z A w z$. $g \lambda z$ $\alpha \ddot{A} v \ddot{A}$ $D v \epsilon$ $S A z \ddot{A} U \frac{1}{4} \ddot{A} z$ $\circ \epsilon^- \ddot{A} i \ddot{A} g \ddot{A}$ $A i i \ddot{A} \ddot{A} z \ddot{A}$ $\neq j \alpha v \ddot{d} \epsilon U$ $M \frac{1}{4} U \ddot{A} U z \ddot{A}$
 $g \epsilon P^a \ddot{A} v$ $\alpha \ddot{A} U^a \ddot{A} v$ $G \frac{1}{2} \ddot{A} i \ddot{A}$ $\ddot{A} P \epsilon \ddot{A}$ α $G \mu \ddot{A}$, $v \epsilon U j$ $\ll^1 z A v$ $\neq w \frac{1}{4} w$ $\ddot{A} \circ i t g$ $D^- \ddot{A} z \epsilon \ddot{A} i \ddot{A} \epsilon$
 $, \alpha \ddot{A} y \ddot{d}$, $\ddot{A} w g \ddot{A} \ddot{A} z \ddot{A}$ $\epsilon \ddot{A} I P z$ $z \ddot{A} g \ddot{A} v$ $\alpha \ddot{A} U i \ddot{A} \ddot{A} v z$.

$E z \epsilon \ddot{A}$ $P \ddot{A} g t^a$ $\ddot{A} v i \ddot{A} P \epsilon A q \ddot{A}$ $\circ v \ddot{A} g \ddot{A}$ $d \epsilon$ $\ddot{A} \circ i t g \ddot{A}$, $e \epsilon \epsilon g \ddot{A}$ $P \ddot{A} v \epsilon \circ$ $\circ U \frac{1}{4} \ddot{A} z$ $\pm \epsilon z g \ddot{A}$,
 $P \circ^a g \ddot{A}$ $\ddot{A} \circ i t g \ddot{A}$ $\alpha \ddot{A} v \ddot{A}$ $e \epsilon \epsilon g$ $P \ddot{A} i \ddot{A} \circ$ $\circ w$ $\neq v$ $\gg r z \ddot{A} P \epsilon A q \ddot{A}$ $\circ d \frac{1}{4} \epsilon$ $z \ddot{A} g \ddot{A} q \frac{1}{2} v P$ $\phi P \ddot{A} g$!
 $, v P$ $d \ddot{A} i \ddot{A}$, $\ddot{A}^- \ddot{A} \ll^1 \ddot{A} i \ddot{A} \ddot{A} U \ddot{A}$ $\ddot{A} i \ddot{A} \ddot{A} U \ddot{A}$ $J A z \ddot{A}$ $\circ d \frac{1}{4} \epsilon \ddot{A}$ $D, \ddot{A} \epsilon P$ $S A z \ddot{A}$ $z \epsilon g \ddot{A}$ $\alpha \ddot{A} q \ddot{A} v \ddot{A} g$.
 $\circ d \frac{1}{4} \epsilon \ddot{A}$ $E z P$ $\neq j$ $\circ \ddot{A} g^a S A v$ $S, a t \epsilon \epsilon \ddot{A}$ $P g$, $\ddot{A} v \ddot{A} g$. $S A \phi z$ $d \epsilon g \epsilon \ddot{A}$ $P \ddot{A} j v \ddot{A}$ $\circ d \frac{1}{4}$ $\alpha \ddot{A} \ddot{A}$
 $\epsilon \ddot{A} i$ $e \ddot{A} w \ddot{A} i \ddot{A}$ $S U i$ $G z \ddot{A} z i$ $\alpha i \ddot{A} v \ddot{A} r \phi \ddot{A} j$. $F U$ $\alpha i \ddot{A} v \ddot{A} r$ $\epsilon \ddot{A} i$ $S, a t$ $\alpha \ddot{A} U$ $v P$ $G v g$
 $\alpha \ddot{A} q \ddot{A} v \ddot{A} g$. $\epsilon \epsilon$ $\ddot{A} q \ddot{A} j$ $S, a t$ $A i i \ddot{A} \ddot{A} z \epsilon A z \ddot{A}$ $z \ddot{A} \ddot{A} \ddot{d}^a \epsilon \ddot{A}$ $\alpha \circ \ddot{d} Q$, $S \circ g \ddot{A}$ $C \alpha$, $\ddot{A} \ddot{A} \phi \circ$ $\ll^1 \ddot{A} \circ$
 $\alpha \ddot{A} \epsilon$, $\ddot{A}$ $C a g z \ddot{A}$ $C a g$ $C \epsilon \ddot{A} i i \ddot{A}^- \ddot{A} U \frac{1}{4} \ddot{A} z$ $2^a \pm g t g \ddot{A}$ $v \neq B$ $\pm Q \ddot{A} i \ddot{A} \frac{1}{4}$ $\ddot{A} P g \ddot{A}$ $J A z \ddot{A}$ $\circ \ddot{A} \frac{1}{2} z \ddot{A} U$
 $v^a \ddot{A}$ $\neq \pm A$, U $P \ddot{A} v d$ $\neq \ddot{A}^-$ $J A z \ddot{A}$ $G v j$, $\ddot{A} v \ddot{A} g$. $S, a t$ $\ddot{A} \epsilon P$, P $\circ t^a \epsilon \ddot{A}$ $J w$ $\circ \ddot{A} Q z$ $J A S$
 $D \neq \ddot{A} z \epsilon$ $E \circ$ $S A z g \epsilon$ $\circ d \frac{1}{4}$ $C z \epsilon \ddot{A}$ $\neg P P$ $v A z \ddot{A}$ $P \epsilon \frac{1}{4} \alpha \phi \circ$. $C z P \ddot{A} v$ $S, a t$
 $g \ddot{A} f \ddot{A} \epsilon \ddot{A} \alpha \ddot{A} i \ddot{A} \epsilon \ddot{A}$ $P \epsilon q \ddot{A}^a$ $\neq$, $A U^a \phi$ $S g \ddot{A} \alpha \phi \circ$. $a t \ddot{d}$, $A P g^a \ddot{A} U \ddot{A} w z$ $J A z \ddot{A}$ $\alpha i \phi P$ $\alpha U \ddot{d}$
 $H \frac{1}{2} l g \epsilon$ $\circ d \frac{1}{4}$ $\neq j U t$, $\ddot{A} \alpha \phi \circ$. $G \mu \ddot{A}$ - $g \lambda z g$ $\neq$, $A U z \circ$ $a t \ddot{d}$, $A P g z$ $\alpha i \ddot{A} v \ddot{A}$ $\circ z \ddot{A}$
 $\circ \ddot{A} \ddot{A} v$ $G \mu \ddot{A}$ $\alpha \ddot{A} q \ddot{A}^a$ D $g \lambda z \epsilon \ddot{A}$ $\ddot{A} g$, F $g \lambda z \epsilon \ddot{A}$ $\ddot{A} g$ $J A z \ddot{A}$ $\circ \ddot{A} \frac{1}{2} z$ $M A z \ddot{A}$ $\alpha i \ddot{A} w \alpha z$ $M \circ z$
 $\circ t \epsilon$ $\alpha \ddot{A}^-$ $U A q \ddot{A}$ $J, V z$ $C v \ddot{A} z \ddot{A} g^a A z \ddot{A}$ $\neq j U t v^a \ddot{A} v$, $\ddot{A} P \ddot{A} w \ddot{A} i \ddot{A} A z \ddot{A}$ $g \lambda z \epsilon$ $v^- z A q$
 $D U \ddot{A} P A z \ddot{A}$ $w \ddot{A} \neq \ddot{A} \ddot{d}$ $\circ \epsilon g \circ \ddot{A} \frac{1}{4} \ddot{A} v z$."

$P^- \ddot{A} i t z \circ$ $E \epsilon \epsilon$ $S, a t \alpha z \ddot{A} \epsilon$, $z \ddot{A} \ddot{d} z$ $g \ddot{A} d Q \ddot{A} i \ddot{A} z$ $\neq A x$ $1 z \ddot{A} v U \frac{1}{4}$, $\ddot{A} \epsilon \ddot{A} Q \circ z$
 $\neq \ddot{A} \ddot{A}$ $\ddot{A} \epsilon i \ddot{A} \ddot{d}^-$ $\ddot{A} \epsilon \ll^1 \ddot{A} i \ddot{A}$ $\ddot{A} S A z z A v$ $\alpha, U \ddot{d} z v^a \ddot{A} v g \ddot{A} P \ddot{A}$ $J A S$ $D \neq \ddot{A} P$ $\ddot{A} P \ddot{A} w$
 $\epsilon \ddot{A} I P z \ddot{A} v g \ddot{A} v z$. $\ddot{A} P \ddot{A} w \ddot{A} i \ddot{A} A z \ddot{A}$ $\ddot{A} \epsilon i \ddot{A} \ddot{d}$ $z Q t P$ $w g \ddot{A} U \ddot{A} v \ddot{A} \epsilon$ $C A z \ddot{A}$ $g \lambda z \epsilon$ $S \circ A i i \ddot{A} U \ddot{A} P \ddot{A}$, $g P$
 $Z \circ \ddot{A} P \ddot{A}$ $\ddot{A} \epsilon \ll^1 \ddot{A} U$ $J A S$ $\ll^1 \phi$ $D Z g u U \frac{1}{4}$ $\alpha i \ddot{A} v \ddot{A}$ $S g \ddot{A} v z$. $G \mu \ddot{A} \frac{1}{2} U$ $\ddot{A} P \ddot{A} z z \ddot{A}$ $\pm g t \epsilon \ddot{A} z$
 $g \lambda z \epsilon \circ$, $\circ \epsilon \circ \ddot{A} i \ddot{A}$ $M g i \ddot{A}$ $g \lambda z$ $\alpha i \ddot{A} v$ $C^a \epsilon \epsilon \ddot{A}$ $P \frac{1}{4} z \ddot{A} P \epsilon A q \ddot{A}$ $\circ Q$ $C \frac{1}{4} \ddot{A} v \ddot{A} \frac{1}{4}$. $\alpha \ddot{A} U g \ddot{A} z$
 $\circ \phi \circ g \ddot{A} i \ddot{A} z$ $\ddot{A} w$ $\neq t \ddot{A} i \ddot{A} \ddot{A}$ $z \alpha i \ddot{A} \ddot{d} \phi P \ddot{A} j U \frac{1}{4}$, $g \ddot{A} d P g t U \frac{1}{4}$ $\alpha \ddot{A} f \ddot{d} U$ $1 Q$ $A i i \ddot{A} \ddot{A} v \epsilon$ $\circ \ddot{A} U$ $\epsilon \circ \ddot{A} v$
 $\circ \ddot{A} \ddot{A} U \ddot{A} v z A S \ddot{A} z \epsilon \ddot{A}$ $\ddot{A} P \ddot{A} w$, $\ddot{A} z g$ $\neq r$, $\ddot{A} v z$. $E z P \ddot{A} v$ $J \mu \ddot{A}$ $d \epsilon$ $g \lambda z g \ddot{A}$ $v^- z A q$ $v g \ddot{A} P \epsilon \ddot{A}$!
 $J \mu \ddot{A}$ $d \epsilon$ $G \mu \ddot{A} \frac{1}{4} \ddot{A} v \circ$ $\circ t \ddot{A} U \frac{1}{4} \ddot{A}$ $\circ P$ $\ddot{A} P \epsilon \ddot{A}$! $J A S$ $\alpha g \ddot{A} v g$ $\alpha g \ddot{A}$, $\ddot{A} i \ddot{A}$, $\ddot{A} P \ddot{A} w$ $P \epsilon \epsilon U \epsilon$
 $P \ddot{A} q \ddot{A} v z$. $\gg \ddot{A} U$, $\ddot{A} P \ddot{A} w \ddot{A} i \ddot{A}$ $\epsilon \ddot{A} I P z$ $\epsilon \ddot{A} I Q \ddot{A} i \ddot{A}$ $C A \pm U \frac{1}{4} \ddot{A}$ $U A \circ \ddot{A} g v \ddot{A} i \ddot{A} \epsilon \ddot{A}$ $\neq q z \ddot{A} P \epsilon A r^a$.



ÉÁIPz° eÁwÁiäv

ÉÆgÁgÄ eÁwU¼Ä, Á«gÁgÄ zÄªgÄU¼Ä, °@aÍ šÄqPIÄU¼Ä, C,ASÁÍ DZguU¼Ä, aÉ«ziªÄiÄ šZÄQÉ «zÄEU¼Ä, aİēqİU¼Ä, °@aÍ šUAIÄ ¥ÆeÁ PªÄU¼Ä ÄgwÄiÄ ,A,šwAiÄEÄ CviAv ,AQÄtðUÆ½¹z. E° CEÍ ,A,šwAiÄ PÄjvÄV ¥ªÄÄRªÄV JgqÄ ¥wQAIÄU½ª. MAZÄ 'CEÍ' ,A,šwAiÄEÄZÄ ÉªÄ ,A,šwAiÄEÄ ªÄ°EUÆ½,®Ä šAz gÄP,ÉAZÄ P¼ª¼ ¥qÄª½zÄ, ªÄvÆAZÄ P¼eÁwU¼ ©qÄUqU šAz zÄªzÆvÉASAv ,Aª«Äª½zÄ. F JgqÄ ªÄzU¼Ä ,ªiÄdz° ¥zÁÉ ¥Ävª»¹gÄª½zÉÄ ªÄÄSÄªÄTÄiÄVgÄª½zÉÄ ¥,Äv ÉÁIPU¼° ÉÆÄqS°ÄzÄVz. 12ÉÄ ±vªiÄÉz ,ÄÄ,šwP Ewª, z° «©É eÁw ¥AxU¼Ä °ÁUÆ CªU¼ vÄvPvU¼Ä CÇPÄg ªªiÄðtz° °ÁUÆ ªÄÄjAiÄª°, ¥±,Äª° °ÁUÆ MÍPÆ¼ª½zg° °ÄU ÄªUª»¹zÄªEÄª½zÉÄ F ÉÁIPU¼ »ÉÄiÄ° ¥j²Ä°, š°ÄzÄVz.

' ,APÄAw' 12ÉÄ ±vªiÄÉz ,ÄÄ,šwP ,AWµðªEÄ ª,ÄªÄV¹PÆAqÄ ,ªÄPª°Æ ÉÄiÄ° «ªÄª¹ Éq¹ CEÄP ÄRPgÄ ÉÁIPU¼EÄ ga¹zÄg. Czg° 1973 g° ¥PIªÄz ' ,APÄAw' ÉÁIP ®APÄ±g ªÆz® ¥Ætð ¥ªiÄtz ÉÁIP. CªJU ®APÄ±g PÉIÄÄCP ªÄvÄ ,ªiÄfP »ÉÄiÄª ª,ÄªEÄ ÉÁIPz gZEU vUZÄPÆ¼Äwz½gÄ. Ezg° Lwª¹P ªÄvÄ ,ªÄPª°Æ ,ªiÄfP ª,ÄªEÄ Dzj¹ ÉÁIPªEÄ šgAiÄªª½zÄ MAZÄ «±µ. 12ÉÄ ±vªiÄÉz PÉlq ,Äªv½z° MAZÄ zÉq ªÆ°U®, eÁw-ªÄv, zªÄð-DZgu, ªÄÄ®Ä-QÄ¼Ä, 1Ä-¥ÄgÄµ, ªtð-ªUð EªU¼ «gÄzi° ªÆgÄIq½z PÄªªÄ. ªª,ÄiÄ šZÄªUÄiÄEÄ ªÄÄRi° ©wÄiÄV¹PÆAqÄ ,Äªv½z gZÉÄiÄ-ÄvÄ.

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ªÄÉAPÄªEÄª ªiÄÉªvAiÄ ÉÜU vg®Ä dÉg° D¼ªÄV ÄgÆjzi eÁw ªiēqİªEÄ ªÆÄUÄr,®Ä š,ªt vAz ¥jªvðÉ dÉgEÄ ±gtgEÄV ªiÄqÄª½zÄ F PÄAiÄð š»gAUz° Dz±ðªÄV, PÄAwAiÄV PAqgÆ CAVgAUz ÄªEU¼Ä KEÄ JASÄzÉÄ ÉÁIP ªÄÄRiªÄV aw¹z.

š,ªtÉªg PÄRÄiÄÄgÄ, PÆ®ÄgÄ, ªiÄÄ, wÉÄ ÄgÄ JAS G¥zÄ± z°v ,ªÄÄªÄiÄP DZguU vg®Ä CviAv QµPgªÄVz. vÉÍ ªÄU gÄz ªÄvÄ Äªt ªÄqÄV GµÄ Cªg ,g, ÄªªEÄ ,ªªª° ªÄ½PÆ¼ÄVÄE Gd, Dzg š,ªtÉªg G¥zÄ± CªÉ fªª,ÄiÄEÄ šw¹ ©qÄvz. F ©qÄª ªÄvÄ ¥qAiÄªª (±gtÉÄUÄª½zÄ) ,APIªEÄ ÉÁIP ªÄª¼vz. ÉÁIPz° šgªªª «ªAUÄª ©r? ©mÄEÄª ªiÄr? ªAq©qÄ, PAq ©qÄ, ªAU,Ä ©qÄ, KEÄEÄª ©qÄEÄzÄ? D? JAS GdÉ ªiÄvÄU¼Ä MAZÄ ,ªÄªªÄiÄz v®tU¼EÄ zÄR° ,Ävz.

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Š, a t eAw, aAv, zaiāðçU½Az K¥ðngāa ©gāPEāi C½, @ā ¥w-Æāā «ā°P | āāAZÁUÁVÁE. Czg EzjAz K¥ðqāa ©P | ÁU¼Eāi mððQ, ÁVÁE. ¥juāāāÁV CāEā PátŠAiā¹z PE¹E, aiāD CāE PuzāGā aiā, iāiā PāvAvP | Š°AiiÁV EāZÁEÆgÁUÁVz. F ŠUaiā CāEwU aārāAvg gÆZā āā°Uaiāag, API Jgqā PteÆār, Ávā. Gmā-gāzg, aiāUāā Gmā¼ zē¶Aiā° CvāiZāgā°PÆ¼ÁVz. Dzg aiā, i gāzE zē¶-zÆāguU¼Eāi -PPI vUZāPÆ¼āiç© »ÁUÁV āā-ÁwAiāag D±ÆāvgU¼U °aE ¥āāāRiv zÆgAiāVz.

©d¼ Eq, āā EāAiā «Zāgu mP¥Ávāāçz© KPAzg zÆgāPEq@ā ŠAz ā°itgEāi ©d¼ «Zāg aiār, Cag āāEāEā°āEāiāEāi Cxð aiārPÆaqā ‘āāU āPāzzāi gāzE v-zAq vāE? D dāā-āi j EEvg°’ JAS, g¼ wāaiāðEP | ŠgāVÁE CzP |, APāAwAiā Š° MAZā EE¥ÁUÁVz.

MgIā, A, wAiāEāi Em¥qāa Gmā-gāzEāi Pg½¹, Rā¶ ¥qāVā¼. ‘P@āJAz P@āi jāwAiā ¥aiāt aiāv, āzi, Czā UēvÁUz āāEax ±gt’ JAS Gmā¼ aiāvÁU¼ā Cā¼, āaiāfP w¼āa¼PaiāEāi ¥wç, Ávā. “Eāi Š½ Ezia āg, Dv EEU āPāzāEā, Dzg EāEā Jzāi EāārZÁU Dvçg°©. C°ziāEā ±gtgāz. Ezā CvāiZāgā°Zā āVÁEā?” JAZā çIvE āāGaiāā Gmā¼ ¥āV EēdāVz. D āāEP Š, a t vGāāizā ā°it, A, āgāā «Eā ±Ez, A, āgā° JASāZā, μāÁUÁVz.” Ezā mEi | vÆj, ā°itEāz āāEā »Az, A, vçAz gād āāāGādgEāi °vÆānAiā°qāVz. FU PEiqçAz ±Ezgeāi ±gtgEāiv¹ °vÆānAiā°qāwçāiāi” J@gE ±guÁUāizā °āU, āzi? Pāraiāāāizā, PÆ@āāizEāi mEi aiāvÁU¼ā °wP-āgāi” – JēāivÁE.

ā°it °qāVaiāEāi | āw, āā gāz J@gEāi ±gtgEāiv, āā Š, a t J@g āāZÁU – «±ā, U½, °ā, āā ©d¼, C¥āgāV | āw, āwz | 2a ±gt gāzE Cā, āEP | vāEā PāgtEāzE-ā JAS Š, a t «μāz EāIPz° Jzāi Pātāā, AUW¼ā, Gmā¼U ±EzEā āPā, ±gtEā āq; Š, a t u ±Ezgeā ±gtgÁU āPā, ±Ezgeā ±EzgāVaiāā G½Aiāāizā. ±Ezgeā ±gtgÁU āPASāZā F Jgqā vU¼ā ¥g, g rQ °EgAiāāVā. Š, a t °ā½zEāZā ±gtEāUāizā °āUE Pāraiāāāizā, wEāāizā ©qāāizā āāVā aiēqāEāi °āiā°AQzAvAiāā Dzg EzāāizEāi -Q, z, āāZāAiāāEāi °vÆānAiā°qā ©d¼ gāzE v-zAqP | āāAZÁUÁVÁE.

“P¼eāwAiā dEgEāi, ā, A, vUe¼, āā “gz° CāgEāi EāiāUe¼¹zjAz Dz -ā°QAv °āAiāā zÆqzASāZēāi āāGaiāāAw@. °E-āiāGā D°āg ¥āāāiāU¼Eāi M¼UÆaqAv Cāg ŠZāPEāi, ā, A, vUe¼, āāizjAz ‘APāAw’ Aiā gāzEAv° Eā ā°itgā °āiāVāg. gādQāAiā, DyðP, ā°vāU¼Eāi CçPāg, A¥EāE@U¼Eāi, āç, z Cāgā Š»gAUāV, ā, A, vāUāāizjAz āāE@-Æv Šz-āāuU¼āUāiç©.”

»āU āāāEāw āāVā āāāāUðçAz ŠAZ MŠ aiQ (Š, a t) P¼eāw āāVā P¼āUðz »vā±QU¼, @āāV EāAiāā °EāGāIP | EāāiPēāZÁU Dv Jmā ¥āaiātPEāVz|gE °EāGāI Aiā±¹AiāUāiç©. KPAzg D¼z° āāçAz@E CāE aiQvāEāi gE |, āā ±QU¼ā MAZ@ MAZā jāw CāE āā- »rv«j¹PÆargāāizjAz P¼eāw āāVā āUðU¼ dāāz »vā±QU¼ā, āāU P@E DvāU GAmāUāizā E@ Gzā°guU ‘APāAw’ EāIPz° ©d¼EzāGā Š, a tEā C, °āAiāPEAv G½ZāçqāVÁE. PāAwAiā āāAZētiāi° āAv āāāāUðzāg EāAiāEāi F EāIPāi Ew°ā, z E-āiā°Aiāā «qA@, āvā.



Sampradaya Mattu Vimochana Neleyalli Akka Mattu Honnamma

-Dr. Suneetha B V.

,AẏzÁiÄ ªÄvÄ «ªÄZÉ É-ÄiÄ° CÞi ªÄvÄ °ÆÉªÄi

-qÁ. ,ÄÄv ©.«

,°ÄiÄP ¥ÁZÁi¥PgÄ, ZAZÁ¥Äg, ¨AU¼ÆgÄ

‘,AẏzÁiÄ’U¼Ä ªAv ªÄg®. Eªi ªgAvªªÄV vAvÁÉÄ Sz-ÁUwªvª. PÁ®PÁ®Þi Sz-Áªu PÁtªª F ,AẏzÁiÄU¼Ä ªiQ °ÁUÆ ,ªiÁdªÉÄ ©iÄ Eg-Ágªi. Dzg, ,AẏzÁiÄU¼ÄªÄ ªiQÉ-ÄiÄ° Cxð¹PÆ¼¨ÄPÄ. MAZÄ Cavgz° ¹ÄPÁgUÆ¼ZÄ °ÆÄZÁU CÉÄP ,ªÁÄU¼Ä ,ÉiÄiÄUÄª. PÁ®PÁ®Þi ¥gA¥g-ÄAz gÆr¹PÆAq SÄz F ,AẏzÁiÄU¼Ä Sz-ÁªuU M¥zÁU °®ªi ,ªÁÄU¼Ä JzªgÁUÄª. ,AẏzÁiÄU¼AZ ªiQÄiÄª vEU vÁÉÄ Sz-ÁªuU vgZÁPÆ¼ªiZÄ ,°d ¥QÄiÄ. MAZÄ PÁ®z° S¼PÄiÄ°z CÉÄP jÄw jªÄdÁU¼Ä ªÄvÆAZÄ PÁ®z° Cxð P¼ZÁPÆ¼ªvª. ªgAvª Z®É²ÄªªVgªª ,AẏzÁiÄU¼ÄªÄ ¹ÄPj,ªª Cxªª «gÆÄ¢,ªª ªÄÆ®P ªiQÄiÄ ¥e ¸,ªgªÁUÄvz. ¨É¢P °ÁUÆ «ªÄ±ÄðvP É-ÄiÄ° ,AẏzÁiÄU¼ÄªÄ CxðªiÄrPÆ¼¨ÄPÄ. ,ÆÄ¥dv-ÄAz ,AẏzÁiÄU¼ÄªÄ U»¹PÆ¼¨ÄPÄ. ,AẏzÁiÄ JAZgÄÉÄ? ,AẏzÁiÄU¼ CUViU¼ÄÉÄ? JAS ¥±U¼U Gvj¹PÆ¼ªª ªÄÆ®P ªiQ vÉ C¹v CjvÁPÆ¼¨ÄPÄ. ,AẏzÁiÄ JÉÄªiZÄ ¨Ævz ª¢ÄiÄ®. ¨«µwÉ° ,Ä¢ÄÉ¥r¹PÆ¼¨ÄPÄZ D¹ÄiÄU¨ÄPÄ. Dzg Eª®PÆ ªÄÄRiªÄV F vgZÁPÆ¼ªªP EEÆiSg C¹vÄiÄÉÄ vÄ½ÄiZAwzªg ,AẏzÁiÄU¼Ä vÉ ,PágAvPv ¥qzÁPÆ¼ªvz. F ª®Ä«É° °ÆÉªÄÉ ‘°¢SzÄiÄ zªÄðªªÄ vÆjPÆAqÁU G½ZÁPÆÄrzÄi ¨«µiz ª¢ÄiÄUÄvz.

‘°AUÆ,AS’-ÉQP ,ASAzªÉÄ, °¹ªi-v:µU¼ÉÄ M¼UÆAqAv ªÄÉÄµi-,ªiÁdz ,ASAz °ÁUÆ-ÆÄP ,AẏzÁiÄU¼ªªªÉª ªgÄPj¹ EªiU¼AZ P¼ªPÆAqÄ-ÆÄP ‘ªªÄZÉ’ÄiÄ ªiAUðz° Éqzª¼Ä CÞiªªªZª«. SzÄQÉ D,U¼U v¼ªª® Cª¹ZÁU ªÄÉ,ª °Æg¼ªªiZÄ D,U¼®z «ªªÄZÉÄiÄqU. vÁÉÄ eÄªÄiÄV ,Äv®Æ CeÁÉz Pv-Ä Dªj¹ZÁU vEU ¨ÄPÄZ eÁÉªÉÄ ¥qÄiÄ®Ä CeÁÉz ªÄvªagt¢Az °ÆgSg¨ÄPÄzg, eÁÉz PqU UÄj-ÄiÄ Éqzª «ªªÄZÉÄiÄ UÄjªÄi¨ÄPÄ. CÞi dUwÉ C,ªiÁÉv, ±ÆÄµuU¼ÉÄª ªÄn «ªªÄZÉÄiÄ °Á¢U Éqzª¼Ä. ¨ÄiÄ ªÄgvÄ, z¨Ä½PÄiÄ «gÄz zª Jw, ZÉiªi°PÁdÄðÉÉ° «±Ä,«i¼Ä. »ÄU SzÄQÉ° ¥wPtz ZAZz° ,AẏzÁiÄ S¼°,ÆÄvÄ vÉ «ªÄQ Cxªª «ªªÄZÉ U¢iz. ÉÉi ªÄÄ- vªªj¹PÆAq «±Ä, «ªªÄZÉ JASÄZÄ zÆgz ªiÁvÁU°®,v®Ä¥z ,¼ªªU°®, DPAiÄ F U®ªªi ªÄ»¼Ä ,ªÄÆ°z U®ªªÄVz.

°ÆÉªªÉ F ‘,AẏzÁiÄ’ °ÁUÆ CÞÉ ‘ªªÄZÉ’ PÉiq ªÄ»¼Ä ,ª»vi ¥gA¥gÄiÄ Jgqª ªiÄzjÄiÄÉÄ ¥wª¢,ªª. PÉiq ,ª»vi PÄvz° ªÄ»¼Ä ‘¥gA¥g’ JAS ¥jP®É °ÄqÁPªª P®, FU ÉqÄiÄAwz. ZÄjwP ¥gA¥gÄiÄ°É ªÄ»¼Ä dªªiÉÉz °Á¢ÄiÄ° Cª¼ °eÄiÄ UÄgÄvÁU¼Ä ,ª»viz®Æ EzÄi F °ÄqÁPÄi MAZÄ ,AQÄtðvÄiÄ ªÄvªÉÄ ,ªvªª P®,ªª,ªvz. ªÄ»¼Ä¥g ªAvÉU¼Ä S®UÆ¼Awgªª EÄ¢É ,Az¨ðz° ªÄ»¼ÄªZ, ¹ªªZ, ªÄ»¼Ä «ªªÄZÉU¼Ä °ÁUÆ ««z ªÄ»¼Ä eÄUwU¼Ä ,Éi¹PÆArgªª °®ªi ªAvÉU¼Ä «©É «ZÁgU¼ÆA¢U vÉ C¹vªÉÄ ,ªiÁÉv °ÁUÆ ,vAv®i É-ÄAz



gÆ! 1PÆ¼Äa v aPz° P¼z aÄÆgÄIPÄ z±PU½Az CÇPvUÆ½1PÆAqÄ S°Ä²1ÄAiÄ aÄ»¼Ä CzÄiÄEU¼Ä °ÄUÆ aÄ»¼Ä Ä»vüz° CÆAiÄUÆAqÄ aÄ»¼ÄÆg «ZÄgu¼ÄV vÄWP E-UnE° Ä»vü, Z¼Äa½, °ÆÄGÄIU¼° aÄ»¼ÄÆg aAvEU¼Ä Un E- PAQÄPÆ¼Äwª. »ÄUÄV Ä»vüz° CwÄÄRiÄÄz ÄÄ, WWP «ZÄgzAiÄ° aÄ»¼ÄaÄz Sz-Äz ÄÄ, WWP E-AiiÄV gÆ¥UÆ½1PÆ¼Äa ¥QÄiÄAiÄ° aÄ»¼Ä vÆÄÄ PÄjvÄz Ä»vü °ÄUÆ ZjvAiÄ°E !, ÄiÄiÄVÄ °ZÄ ¥ÄÄÄRª, Ävz. dÆ¥z °ÄUÆ ²µ ¥gA¥gu¼°E aÄ»¼ÄiÄ PÄjvÄz °tÆ zPÄiÄÄÄ P¼zÄ °ÆÄz °tÆ CÄ, ÄiÄÄÄ, ¥ÄgÄµ Zjv-ÄÄz °ÆgvUZÄ aÄ»¼Ä E-AiÄ° CzÄiÄÄ ÄiÄQÄª PÄAiÄÄª Jª, Ävz. F onE° ¥, Äv CzÄiÄÄÄ ¥ÆgP JÄÄª EÄOP-Äz.

aÄ»¼ÄiÄ fÄªE °ÆÄGÄI ,AWµðU½U «ÄÄ, -ÄzzÄ C®. Cª¼ Ewª, CÇÄEvAiÄ° PÆgvz. vÆ CÇÄEv-ÄÄz °ÆgSAZÄ vÆ C¹vªÄÄ gÆ! 1PÆ¼Äª, vÄv, ÄiÄEvAiÄ °ÄÇAiÄ° EqaÄiÄ-ÄPÄVz. vÆ, vÄv, ÄiÄEv °ÄUÆ ÄÇÄiÄEP CrÄiÄzÄU ¥wÄiÆS °tÄ CªU¼ÄÄ ¥qÄiÄÄÄ Cª¼zÄ Dz 1wAiÄ° °ÆÄGÄI ÄiÄQÄª aÄvÄag t, ÄiÄiÄU-ÄPÄ. F Äz-ðz° Ä¥zÄAiÄªÄÇ Dz gÆ °ÆÄÄÄÄ°ÄiÄÄ, ÄiÄEvAiÄ ¥e, ®ÄnUÄzgÆ Ez. EÄÄ CPÆ SzÄPÄ MAZÄ °ÆÄGÄI z PxÆªÄVz. CPÆ aZEU¼° ÄiÄÄª, °d µµ, vüU¼Ä «ÄV-ÄV zÆÄ, Pävdv F J-Ä ÄªU¼Ä ÄPªÄVª. MmÄg CPÆ aZEU¼Ä ²ª ¥ÄÄÄÇAz vÄÄOPÆAqÄ, v±Ä°ÄiÄÄ aÄzÄgªÇ DVª. °ÆÄÄÄÄÄ CPÆAv Eäd, ÄÄxðP«. °ÆÄÄÄÄ CAÇÆ Ä¥zÄ-ÄP PÄÄiÄiÄUðÇAz zÆg, jzÄ vÆ PÄÄ ga¹zÄ¼.

°tÆ fÄªE ÄxðPªÄU-ÄPÄzg aÄzÄª °ÄUÆ zÄÄ¥vüz° JÄÄª ÄªE °ÆÄÄÄÄ°z. °tÆ SzÄPÄ zÄÄ¥vüz°ÄiÄÄ ¥j¥ÆtðUÆ½¹zÄ¼. vÄv °ÄUÆ ÄiÄEvUÄV °ÆÄGÄI EqaÄwªª EAÇÆ °tÆ zÆÄiÄÄ° °ÆÄÄÄÄ F ®Ä«E° «gÆÄz«z. »ÄU, PwAiÄ°E P®Ä C®¥ÄÄiÄU½U «gÆÄzÄvPªÄV ¥wQ-Ä, ÄvÄ °ÆÄzg P®ªÇAZÄ «ZÄgu¼Ä °tÆ Eäd, ÄÄ, U¼v zÆÄ, ÄvÄvz. ÄZiÄÄV ÄPªÄz «ZÄgu½U °ÆÄÄÄÄ SzÄPÄ °ÄUÆ Cª¼zÄ, ÄiÄd ÄÄ, ÄiÄ Dz±ðz EwPvAiÄ ¥j¥Ä®ÄÄiÄÄ DVz. PwAiÄ°E gÆ¥uU¼° CAÇÆ °tÆ fÄªAv avtªÄV, CAÇÆ, ÄiÄdz °tÆ 1wUwU¼ ¥wgÆ¥zAwª. ¥wÄiÄÄ ¥gzª JAS ÄiÄ®¥Ä®E CAÇÆ Ä¥zÄÄiÄ, ÄiÄdz ®jÄPÄiÄVvÄ.

Ä¥zÄÄiÄ, ÄiÄdz ®jÄPU¼ÄÄ UÄ½U vÆjz ÄZÄjP ¥eÄiÄÄ¼ ÄªÄzÄ«ÄiÄP °ÄUÆ CvÄv Ä¥zÄÄiÄ µ¼Äz °ÆÄÄÄÄ EªjSgÄÄ °®Ä PÄgtU½U vÄ®E ÄiÄQÄªzÄÄiÄ. Ä, ÄgªÄÄ vÆgz CPÄ ÄÄiÄQP, ÄzÄÄiÄ PÄgªªÄV CzÄvz vÄv vÄÇAiÄ° ±ÆÄÇz 1Ä±Q. CgªÄÄÄiÄ Äªªz SzÄQÆ EqaÄÄiÄÄ, ÄÄ, 1ÄPÄ®ÄÄ PÄjvÄ aAw, Äª °ÆÄÄÄÄ EªU °wgªÄVzÄ¼. CPÄ vÆ °ÆÄGÄI z SzÄP° vÆÄjz ÇlvE, Kjz DzÄvWP Jvg, °ÄUÆ CÆÄªÄP UÆgª, ÄÄaU, ÄÄ, SªÄzÄ. Dz g, °ÆÄÄÄÄÄÄÄ dU¼ÄÄqÄv Cª¼ C®¥ÄÄiÄÄÄÄ «gÆÄÇ, Äv, ÄiÄÄÄv gªÄz 1Ä¥gªÄz PÄ, ÄiÄÄÄÄ ga, SªÄzÄ.

CPªU zÄÄÄðP °ÄUÆ DzÄvWP, wzªÄð ÄÄÄRiÄÄV ÄQ, ÄvÄv ÄiÄÄÄ-ÄvÄ. CPÆ ÇlvE ®ÄÄÄ, Äªªv PÄiÄÄSP CANz, ÄÇÄiÄÄV SzÄP®Ä, ÄzÄ«®. ÄªiÄfP ÄiÄ®U¼° EÄOPÄiÄÄ °ÆÄÄÄÄ, PÄ»rz ¥w PÄgÄqg°, PÄÄlg°, zÄµg° vÆ SzÄQU



UAqEÄ J⁻Ä. CPÆAv aÄzÄ^aAiiUÄ^a UAqPaz aZE ¥qAiÄÄ^aÄzÄ, aZE⁻µEÄzÆqE⁻
aÄzÄ^a, UAqEÆAÇVE ,ASAzU¹/₄EÄ^a aÄjzÄ °ÆgSgÄ^aÄzÄ °ÆEÄ^aÄEAv° ,ÄÇU⁻
ÄziÄAUzÄ. CP^aÄ°ÄzÄ« E¥vg J¹/₄°gAiÄz°AiÄÄ GÆÄÄz DzÄWP vvU¹/₄EÄ^a
¥w¥ÄÇ¹/₂ÄzÄ. FP J°gAv ¥w, aÄE, aÄP¹/₄Ä EzPÄV °Änz a¹/₄®. Ca¹/₄°ÄzÄ ,aiÄdaEÄ^a
aÄÆIq, °PÄV CAÇE^agU vÄ¹/₂ÄiÄ®I aÄ⁻¥Ä PÄ®z ,ÄvAvPÄV °ÆÄgÄI £q,®Ä⁻
«ÄÄ ,ÄVgÄ^aAv CÄ,Ävz. -ÆÄP¥w-ÄÄz zÆg^aÄV zÄ±® aÄ°PÄdÄðEEÄ^a
Dj¹/₂PÆ¹/₄Ä°AiÄÄ Ca¹/₄U ¥g^aiÄEÄz«z, Ca¹/₄ SÄqÄAiÄäÇ Ez.fÄ^a EÆAZÄU ÄAzÄU D⁻
EÆÄ^a ,Ä»viÄzÄU CzÄ CaÄg PÄwAiÄUÄvz. CPÆ aZEU¹/₄Ä «± ,Ä»viz ±Äµ P«vU¹/₄
 ,Ä°E° ®ÄÄAxÄI. Dzg °ÆEÄ^aÄE aiÄUð vÄÄÄ ,g¹/₄. Ca¹/₄ zÄ⁻ÄiÄ° zÄ¥w ÄQVAv⁻
¥wÄQ «ÄVÄzzÄI. ESgzÄ ¥wÄQ ÄÄaÄ Jgqg° fÄÄE ÄÄw-Äz. DzgÆ °ÆEÄ^aÄE⁻
EQP ¥w¥ÄÄÄ ÄQ, °ÆEÄ^aÄ PÄAiÄ,»v ¥wzÄ^ag°I CÆÄGÄU^aEÄ CAVgAUz°
vÄÄCPÆArzÄ¹/₄. CPÆ C⁻EQP ¥w¥ÄÄÄ ÄQ, PÄAiÄg»v ZEÄÄ°PÄdÄðEE°I Ä CÆÄGÄU^aEÄ^a
S»gAU^aÄV aP¥r¹/₂ÄzÄ. ÄÄwAiÄ aÄÄÄiÄEÄ^a ¥wÄQÄiÄ F JgqÆ aiÄUðU¹/₄Ä ,ÄgÄv^a.
ESg ¥ÄÄÄäÇ aÄE¹/₂U aÄÄzPÄqÄ^a fÄÄE ,ÄxðPv ¥qAiÄÄ^a GzÄ±«z.

CP F zã°aEÄ PÄjvã °Ä¼ÄÁÚ 'CaÄÄziz aÄrp, aÄEvz PÄrp, J©Ä©E vrP,'
EzÄ CPÉ aigÄUP °rz PÉr.CPÉ F °Q, ÁaiÄi aÄ»¼AiÄg H °UÉ ©ÄPz
«gÄVE ÄiÄ DzÄWP °Q. °EÄi aÄEzÄ, ÁaiÄi jUÉ ©ÄPÄ°, d °Q.
'SgÄaizÄÄAmEÄi SgÄÄ PÄRP S °ÄzÄ' JAS aiÄwE° «±Ä, «z. 'E©AiÄE aÄEP, A, Äw
vÄÄj, Ä° ¥Ar jU, ÄvÄE, Ä°ÄU, ÄvÄU¼ÄÄ 2ÄPÄvEÄ PÄj, Ä°ÄÄ' JASÄzÄ
°EÄi aÄE ©ÄÄÄ, Äv-«ZÄGU¼° ¥S®Äz ÄÄCP-ÄnzigE vEÄ D°ÄZEU¼ÄÄ °ÄÄ
EPIÄ ©ÄU¼° °Ä½zgE zÄiÄÄ°ÄV P®ÄÇZÄ «ZÄGU¼ÄÄ °Ä¼Ä° UnvE aÄgÇzÄ¼.
°tE ÄiÄÄUPÄÄÄÄÄ PÄjvÄ aÄw, Ä° DPAiÄ aiQvÄÄÄ °ÇSziÄÄ zÄÄÄ PÄwAiÄ°
aiP¥r1zÄ¼. Dzg CpiÄ°ÄzÄ«AiÄAv DPU dE, ÄaiÄEig Z¼ÄÄ¼AiÄ° °ÄUÄ», ®Ä
ÄziÄÄV®.

CPiA°ÁZÄ« vAEÄ SgAiÄ°ÄPAZÄ Sgz a¼®. EEÆSg G¥AiÆÄUPÆ, azÄð±E
aiÁqª GzÄ± EIÄPEAQª¼®. F «ZÁg C¥, ÄvÁZgÆ vE®P «±ÄµuAiÄ z¼¶AiÄ° F
«ZÁg S°AAÄRiªÄUÄvz. PÁgt, CPE gZEU¼Ä Cª¼ SZAQE PaªÁVz. Dzg °ÆEiªÄE
PwAiÄª aª¼UÄVAiÄ gZEAiÄVgªAv°zÄ. ¥AAÄRªÁV °tª aªVª Cª¼, A, ÁJP SZÁPª
°ÄVg°ÄPª JASÄZÆÄ °®ª¼ ¥ÁgÁt, AUWU¼ÆÄ, ¥¹z) 1ª ¥ÄVU¼ÆÄ G-ÄT¹ G¥zÄ±z
GzÄ±CÁZ-Ä gÆ¥UEArz. DzIjAz CPE SZÄQE «zÁEªÆÄ aªVª °ÆEiªÄE PwAiÄ°E
G¥zÄ±U¼Ä £qÄ«E «±ÄµuAiÄ DVz. EzÆÄ, µ¥r¹PÆAQÄU vE®P «±ÄµuU, Ä®-z
zÄjAiÄUÄvz. ¥wAiÆAZª a¼Qvª¼ ZjvAiÄ £g¼ gÆ¥UE¼ªª PÁgt ZjvAiÄÆÄ zÄn
«ZÁg aªAQE C¥ÆtðªÄUÄvz. DzIjAz PÄ®, ¥j, g, ÄE aiÁEU¼Ä, aªÄd, zªð,
Av ®Äª¼, ¥Águ aªÄAvÄZ «ZÁGU¼Ä a¼QAIª a¼QvªÆÄ SZAQE jÄw AvWU¼ÆÄ
qÆ, Ävª.

PÄIÄÄSz SÜVE °ÁUÆ zÁÄvü «ZÁg¼U¼°£ °ÆE|aÄi aÄvÄ CP£ æ@Äa|U¼Ä
 ¥g,g «gÄz|aÄz a|U¼Ä. CP£° ,w-¥w"Áa«z|Av °ÆE|aÄÆ «ZÁgU¼° ,w¥wU¼
 \$Az£«z. F E\$g "Äa-\$Az£z° CcÄEv-Äz. C| CAvgAVP £-Äiä° CcÄE¼Äzg,



°ÆEĪāĀ "ĒwP Ē-Īā° CĉĀĒ½ĀVzĀ¼. °ÁUĀV, CPāā°ĀzĀ« zĀāgĀ ¥wĀĪĀz½Ā, °ÆEĪāĀ ¥wĀĪĀ zĀāgĀzĀ, Ājz½Ā. CP ¥wĀĪĀEAĉU DzĀwP "QāĉAĉzĭg, ĀPAz½Ā. °ÆEĪāĀ ¥w"QĀĪĒĀĪ ¥Ā°½zgĀ, ĀPAĉzĀ¼. CPĒ □āāĀU½Ā ¥, Āv, ĀAzĉĉP 1Ā MāāĀU½U vĀwPāĀV MvĪPEAqg, °ÆEĪāĒ° 1Ā¥g PĀ½f-ĀzĭgĒ DzĀāP 1ĀāÁzz vĀwP «ZĀgU½U «gĒĀzāVz. ¥ĀgĀμ ¥zĀĒ □āāĀU½U DPAĪā°Ē MĪUĀĪĀ F «gĒĀzP āĒzĉ PĀgt. ¥ĀgĀμ ¥zĀĒ āĒĉP, A¥zĀĀĪU½ āĀzĭ vĒĪ D½v G½½PEAq CP 1ĀāÁzz Ē-Īā «ĀĀZEĀĪ° 1ĀĀĪĀvP āĪzĭĀĪ° PĀtĀvĀ¼. ĀĀ, wāĀV 1Āv vĒĀjz °ÆEĪāĀ, ĀĀ, wP 1ĀāÁzPĒĪ, A¥zĀ-ĀP □āāĀU½Az 1Āv āĪzĭĀĪ°E DPAĪ «ZĀgU½ĒĀ «±Āĭ, ĀVz. EsgāĒ° °AU"Āz, °AUvĀgvāĀU½U «gĒĀz«z. CPĒ° , āĪdāĒĪ JzĀj, ĀĀ zĪĀĪĉ«zĭg °ÆEĪāĒ° PĀĪĀSsz, °"Ā½ĀĪĒEAĉU, āĪdzĒĒU G½ĀĪĀā □zĀĉg«z. CP, āĪd PĀĉv □āāĀU½Ā '«āĒZE'ĀĪ āĪzĭĀĪĀv °ÆEĪāĒ PĀĪĀS PĀĉv □āāĀU½Ā, A¥zĀĀĪ'z āĪzĭĀĪāVā. F «ZĀgU½ĒĀ «±Āμ āĪqĀāĀU Pāā «ZĀgU½°, āĪĒāVāĉ «gĀzāVāĉ Cā, Āvz. MmĀgĀĪĀV Jgqā ĉĒĪ, ĀāĪāfP, zĀĀĉP ¥j, gĉAz SĀz CPāā°ĀzĀ« āĀvĀ, Aā°ÆEĪāĒ «ZĀgU½ĒĀ CĀvg ĒĀPĒAqĀ DzĀāPāĀV āĪzĭP Ē-Īā° ĈĒ-ĀPāĀV vĒāP «±ĀμU M½¥r½zĀU SĀĀQU Pāā Cxĉ¥Ētĉ «ZĀgU½Ā 1UĀvā.

PĒĪĀĉP, zĀĀĉP, āĪāĪfP, gĀdQĀĪĀ gZE-, A, U½zĭgā CĀvUĉvāVgāā °AUvĀgvāĀ, »A, C, āĪĒv vĀĉPĒEArgāĪzĀ āĀ, ā. °AUĀzĀjv »A, C, āĪĒv ĒĒĒĪ fĀāVāāVgā PĀgtU½ĒĒ? PĀĪĀS āĪĀĪ gĀzāP ĒĒĒU½Ā °AUĀzĀjv C, āĪĒvĀĪ »A, U½ĀV fĀāVāVgā MĀzĀ ¥āāR PĀgt. '¥tĀ ¥UzĀP ĉĀ½U½āgĀ' JĒĀā °AU C, āĪĒvĀĪ ¥ĒĀĪĒ Ēz PĀWĪz° □ĀvĀ āĀ»½Ā¥gāz °ÆEĪāĒ F PĒUĀ CμĀ, Āĉ"z āĪvĒ. vĒĪ PwĀĪĀ GzĪPĒĪ ¥ĀgĀt □zĉĒU½ĒĀ GĀT½ vĒĒā °Ā½zĉĀĉ Cā¼ PĀĉ«ĀWĀĪ° āĀ»½Ā¥gāzz āĪvĀU½. CSĀĪĪĀz °tU PĒĪĀĉP DĀĪĀ āĒĒĒ"ĒvāVvĀ. «ZĪzĒU½U D, zĉ«z °tĀ «zĪ «āP«z 1wĀĪ° UqĒĒĪ CāāĪĪĉāV ĒĀĉ SĀĀPĀPĀVvĀ. ĈĒzāĀĉU½ zĀ½U½ PĀgt, 2ĀāāĒĀā °ĒgĀĪĒĒĪ °ĒvĀ PĀĪĀSsz°ĀĪĀ SĀĉĀĪĪUĀPĀVvĀ. CĀzĀ-¥gĀ¥g-Āz SĀz, A¥zĀĀĪU½° °VĀĪĪĀz ĒĀĉ Ē-ĪāĒĪvĀ. °ÆEĪāĀ PĀĉ«ĀW «ĀĪ Ēw°Ā, āĒĪ, Īĭ½zā¼. °tĒ »vāĒĪ SĀĪĀ, āĀ ¥gāĒzĪ± Cā¼zĀVvĀ. Esg «ZĀgU½ Pāā, āvĉĒĀĪ° āĪvĀ, «zĭgĒ, °ÆEĪāĒ F, A¥zĀĀĪ'μ «ZĀgU½Ā ¥ĀgĀμμU □āāPĒAq, ĀwU½ĒĀĪzĀ 1ĀāÁzz, μ □āāĪ.

PĀĪĀS āĪĀĪ-Āz '«āĒZE' ¥qzĀ, āĪĪĀQP, vĀvz DzĀāP ĉĀĉ ĉwz CPĒ gĒĀzP SĀĀP, °tĒ PĀĉP MĀzĀ Ēw°Ā. F UnvĒz gĒĀzPvĀĪ° zĪ»P °ĀUĒ āĪĒPāĀz »A, PĒĀĪĉ, ĒĒĀĪ, ĀĪĪvĒ, CāāĪĒU½ «gĀzĪz °ĒĀĀĪ«z āĀvĀ ĒāU½U vĒĪ ¥w"ĒĒĀĒĒ Ēz. A¥zĀ-ĀP, ASĀzU½Az °ĒgSĀzĀ ¥ĀĪĪĉĀĪ Ē-Īā° vĒĪ C½vāĒĪ gĒĪ½PEAq °Ē, vĒ«z. Ē° CP vĒĪ □āāĀU½U CZāĀV CĀPĒĒĀ«P-Āz. °ĀUĀĪĀ, wĀĀ CrĀĪĪĀzĀv CāāĪĪĉvĀĪĒEAĉU CāU½Az «āĒZE ¥qĀĪĀā zĪĪĪĉ āĀvĀ «āZEĀĪĀ ēĒĒĒ Ēz. °tĒ C½vĀĪ «ZĀg SĀzĀU CPĒ '«āĒZE'UĀV v½z āĪĒP °ĀUĒ DPAĪā °ĒĀĀĪz □āāĀU½Ā, ĒwĉĀĪĪzĭgĒ, CPĒ Dj½PEAq zĀĪ āĪĀv vĀĀĀ Ppt. ¥wĀĪĀ zĪāāĒā °ÆEĪāĀ PĀĪĪĀ āĀzĀ āĒĒ, Ā



UAq-°Aqw, °ēzAiāgÁV ¥g,g MAZÁU°ÄPÄ. PÁAiIä aÁZÁ aÄE,Á, aðªEÄ °AUP
C,ð¹ gw, ÄR ¥qAiÄÄa|zÄ CPÉ zÆÄgu. EŠg®Æ zÁA¥v|, ÄRz °ÆE°z. vE|Ä
,ÆAzAiäðªEÄ Eµzēap| (¥wU-²ªaµU) «ÄÄ, °qÄª EŠg F µ®Ä«E° ¥ÄªÄz
DPðu-Äz, C¥ðu-Äz. °ÆE|ªÄE°E °EQP ¥w°QAiä-¥ÄªÄ, CPÉ C°EQP zēª°QAiä-
¥ÄªÄ vÁwPaÁV zÁA¥v|z ¥ÄªÄªEÄ °Ä½Ávª. JÄ PÁ®PÆ zÁA¥v| ¥ÄªÄ °ÁUÆ
zÁA¥v|z ° ¥ÄªÄª °Ä,Ä °ÆPAwG°ÄPAZÄ ŠAiÄ,ÄªzÄ, °d.

PÁ® Šz-ÄzgÆ Ew°Ä, -IÄVÄU½ª aÄU®ÄU½ª Šz-ÄzgÆ ¥ÄªÄz °ÆE®Ä aÄE¹E
°ÄªEÜ½ÁV ¥g,g eÆvUÆr °Æg½Ávz. °ēzAiäz ¥ÄªÄª JvÄ ZÁaPÆArz JÄªª
,ÆáfU fÄªE |Äw, aÄÄUv MAZÄ JAS °Äª, ¥g,g w½ªª½PU½ª ¥ÄªÄz PÁAwAiäEÄ
»V|,Ävª. M®ÄªAiä PÆÄr Kj °jzÁU ¥ÄªÄ,ÆU,ÁV aÄzªÄr PÁgÄt
a®ÄªAiüÄvz. F ¥ÄªÄ JÄªªzÄ Pgzg Šgªª, Cjzg °ÄIªª °ÄªEÄi®. PÁ®
Šz-ÄzgÆ ¥ÄªÄz aÄª»ÄU ¥ÄªÄª ±guÁU°ÄPÄ. AiüªzÄ CrU½ª PtªµÄ DV®qÄvª.
vE|zÄ °Äª®°jAiä° °jAiäª F ¥ÄªÄ £CU CzµÆÄ,APµU½ª,ÄjpÆAqgÆ
w½AiüV®qÄvz. °zj vE| ¥xªEÄ Šz-Ä-Ä,Äª®.

»ÄU ¥ÄªÄ vE| PÁAwAiäEÄ PÆEÄiªªgUÆ zEÄvP AiÆÄdEÜ½ª P½ªPÆ½ÁV
IÄüAvP aAvEÜ½ª JzÄ PÄ½VÄ ŠZÄPÆÄ ŠZÄQ,Ävz. C°E aÄÄUvAiä °ÄªzÆAÇz
w½ªª½PÄiä M¥AzU½ª vÄª MAZÄ JAS °ÄªzÆqUÆrg°ÄPÄ. EÄEÄ EÉizAS, -¥wµAiä
°ªÄª ¥ÄªÄªEÄ C®APj,z aÄ®Ä¹gE ¥ÄªÄª C°APÄjP avÄð®U½ª zÄn °ÆÄÜvz.
M½ªªE¹E °ÄªEÜ½ª PÄ½ª Q«U½ª E rÇIÄPÆ½ª°ÄPÄ. µgÄ°gtzAwgªª F ¥ÄªÄ
DqASgz,Ä¥wU Kjzg, zÁA¥v|z ° aiÄvª aiÄwUÆAZÄ ¥wªiÄvª, vPðP «vPð, aÄzP
¥wªÄz «vAqªÄz,ÆÄªPÆ½ª aÄE¹w, EÄEÄEÄ PrªAiäª JAS C°A, °t,®Ä
PÁAiäªª aÄE,Ä, ZÄZ®ª °ÆAZÄ, »ÄU °®ª,ªÄxðEÜ½ª zÁA¥v| ¥ÄªÄz °Äª
dUwÆ½ªU «µ®dªÁV fÄªE EgpªÁUÄvz. UAqÄ-°tÄ JÄªªzÄ PÄª® zÄ°U½ª C®.
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µgvªÁVgÄvª. zÁA¥v| ¥ÄªÄz,ÄRª,ÄAzgªÇ DVg°ÄQz|g, MAÇµÄ °ÄU°ÄPÄ DUÄ
MŠg °EÄª aÄvEŠjU PÄtªzÄ. D °ÄUÄ«PÄiä° ¥g,g zÁA¥v| ¥ÄªÄ C,ÄÇvªÁUªzÄ.
»ÄU C,ÄÇ¹zÁU,ªÄxð ŠZÄQE Cxðª vÁEÁVÄiäª ¥Äª,Ävz. ¥g,g °ÄUÄ«PVAv °Äg
v¥«®.

zÁA¥v|z Jgqªª aÄE,ÄU½ª ¥g,g aiÄ,zAv KQÄ°«ÄPÄiä C°Äzv,ÄRªAiä
zÁA¥v|. ±EÉiz ©AzÄ«ªAz DgA®¹ ¥ÄEß CzÄ ©AzÄ«E° vAzÄ µª,ªªAv CPª aÄvª
°ÆE|ªE «ZÁgU½ª CzðvªÄ,ªÄ¥ðuAiä °ÄªzÄ zÁA¥v|,ÄU°ÄPÄ. ¥g,g
Cª®ASÉ-Äzg,ÄPÄ Dzg, CzÄ EŠjUÆ °ÆgAiüÄ°ÄgzÄ. °ÄUÄiäª, ¥g,g
,ªiÄEAvAiäªiä° ÄvAv,ÄªªiÄE, UÉgª G½¹PÆAqÄUµª zÁA¥v|P dªÄz Cxðz°
¥j¥Ætðv¹UªªzÄ.

Gender and Work, Challenging Conventional Wisdom Women in un-organised sector

-Dr. Sheela Devi S. Malimath

C,AWnv GzÆiAU a@AiÄz ° aÄ»¼

-qÁ.²Ä-ÄZÄ« J, i. aÄ½ÄaÄo
 °-¥ÁZÁi¥PgÄ, A±ÆÄZÉÁ aiAUðz±ðPgÄ,
 ©.JA.J, i aÄ»¼Ä «ZÄi@AiÄ, S, aEUÄr, "AU¼ÆgÄ-560 004

D±AiÄ:

PÄAiÄ" aÄ-ÄÄZ PÄ-Ä,
 fÄa" aÄ-ÄÄZ aÄ°Z PÆI aASÄZÄ.
 PÄAiÄZ fÄaEZ "ÄZaEjv°
 Cv°v-AzÄ aÄv °@ÄS°@.
 EzÄ ±ÄAiÄZ PÆI
 JÆiAiÄ!AiÄ EÄÄr ±P¼APaÄ°PÄdÄE°

- , aÄU aZE , A¥ÄI -1155-¥ÄI-343-
 aÆÄ½U aÄ°ÄZÄ«AiÄ aZEz° C,AWnv a@AiÄZ zÄq aÄ»¼AiÄÄÄ aw¹-ÄVz.

"aÄ»¼AiÄg ¥j¹wAiÄÄÄ, ÄZÄj, Äa °ÆgvÄ dUwE GzÄg , Äzi«@. ¥P MAZÄ gPi-ÄÄZ
 °ÄgÄaÄZÄ C, Äzi"

- , Ä«Ä «aÄPÄEÄZ

"°tÄ aÄP¼ C©aÄÇ J°AiÄaGU DUÄaÄÇ@aÇÄ C°AiÄaGU F , aiÄdz C©aÄÇ
 DUÄÄÇÇ"

-aÄ°ÄvÄi UÄAÇÄf

A±ÆÄZÉÄ -ÄRÆZ zÄ¶ aÄvÄ zÆÄgu :

¥ÄgÄµ ¥¥AZZ° aÄ»¼ vE C¹vAiÄÄÄ °ÄU ¥qzÄPÆ¼ÄaÄZÄ JAŞÄZÄ , ÄaiÄfP
 "zv. aÄ»¼ aÆZ@Ä vE `C¹v' U½¹PÆ¼"ÄPÄ. DÄÄÄ- CzEÄÄ «, j¹PÆ¼ÄvÄ °ÆÄU"ÄPÄ.
 DU CzÄ J@g ¥¥AZ aÄUÄvz. FvgÄa , aÄ, i aÄvÄ , aÄ°E UrgÄSU¼ÄÄ MqAiÄÄaÄZP
 , Äzi«ZÄiÄÄ JAZÄ ¥²¹PÆÄqÄU °PÄ PvðaÄU¼Ä, PÄEÆEÄ PÄAiÄU¼Ä aÄ»¼U , ÄZE
 , ÄaÄVU¼ÄÄ MzV¹PÆÄvÄ. F , ÄZEU¼ÄÄ G¥AiÆÄV¹PÆ¼Äa zÆÄguAiÄÄÄ aÄ»¼
 ¥qzÄU , A¥Etð , ÄaiÄfP "zv ¹UÄvz JAZÄ °Ä¼ÄaÄZP DUÄaÄÇÇ. Dzg EÄÄEÄÄ
 , ÄEÄiÄEÜ¼ÄÄ , Ä¹¹PÆ¼ÄaÄZÄ °ÄU JAŞÄzg CjÄ vEµPÄ vÄEÄ ¥Ä!AiÄUÄvz. °tÄ
 GzÆiAU a@AiÄz° JgqÄ , Az"ðPÄ aÄÄSÄÄÄTAiiÄU"ÄPÄ.



1. $\mathbb{E} \mathbb{A} \mathbb{E} \mathbb{A} \mathbb{A} \mathbb{i} \mathbb{i} \mathbb{A} \mathbb{g} \mathbb{A}?$ $\mathbb{J} \mathbb{A} \mathbb{S} \mathbb{C}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ}$.
2. $\mathbb{E} \mathbb{A} \mathbb{E} \mathbb{A} \mathbb{K} \mathbb{E} \mathbb{A}?$ $\mathbb{J} \mathbb{E} \mathbb{A}^{\circ} \mathbb{i} \mathbb{z} \mathbb{E} \mathbb{A}^{\circ}$ $\mathbb{U} \mathbb{A} \mathbb{W} \mathbb{D}^{\circ} \mathbb{P} \mathbb{E} \mathbb{A}^{\circ} \mathbb{A} \mathbb{I} \mathbb{A}^{\circ} \mathbb{E}$ $\mathbb{A}^{\circ} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{E} (, \mathbb{Y} \mathbb{e}) \mathbb{J} \mathbb{A} \mathbb{Z} \mathbb{g}$
 $\mathbb{A}^{\circ} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{f} \mathbb{P} \mathbb{Z} \mathbb{v}$. $\mathbb{J} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{S} \mathbb{A} \mathbb{Z} \mathbb{E} \mathbb{C} \mathbb{A} \mathbb{Z} \mathbb{Y} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{V} \mathbb{z} \mathbb{A} \mathbb{i} \mathbb{U} \mathbb{D}$. $\mathbb{A}^{\circ} \mathbb{t} \mathbb{A}^{\circ} \mathbb{S}^{\circ}$, « $\mathbb{A}$,
 $\mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{g} \mathbb{K} \mathbb{P}$ » $\mathbb{A} \mathbb{U}^{\circ}$ $\mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{W} \mathbb{z} \mathbb{A} \mathbb{E} \mathbb{A} \mathbb{Z} \mathbb{g}$, $\mathbb{P} \mathbb{A} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{P}$, $\mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{U}$, $\mathbb{P} \mathbb{A} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{P}$, $\mathbb{A}^{\circ} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{A} \mathbb{C} \mathbb{U} \mathbb{A} \mathbb{Z}$
 $\mathbb{K} \mathbb{P} \mathbb{V} \mathbb{A} \mathbb{E} \mathbb{V} \mathbb{A} \mathbb{Z} \mathbb{M} \mathbb{S} \mathbb{A} \mathbb{n} \mathbb{A} \mathbb{i} \mathbb{i} \mathbb{A} \mathbb{V}$ $\mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{C} \mathbb{E} \mathbb{S} \mathbb{A} \mathbb{Z} \mathbb{A} \mathbb{U} \mathbb{D} \mathbb{P}$ $\mathbb{A}^{\circ} \mathbb{A} \mathbb{U}$ $\mathbb{A}^{\circ} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{f} \mathbb{P} \mathbb{Z} \mathbb{v} \mathbb{A} \mathbb{i} \mathbb{A}^{\circ}$
 $\mathbb{C}^{\circ} \mathbb{A} \mathbb{P} \mathbb{A} \mathbb{Q} \mathbb{A} \mathbb{P} \mathbb{E} \mathbb{A}^{\circ} \mathbb{A} \mathbb{P} \mathbb{A} \mathbb{J} \mathbb{A} \mathbb{S} \mathbb{A} \mathbb{Z} \mathbb{g} \mathbb{P} \mathbb{Q} \mathbb{U} \mathbb{E} \mathbb{E} \mathbb{Z} \mathbb{E} \mathbb{I}$.

« $\mathbb{A} \mathbb{i} \mathbb{A} \mathbb{Z} \mathbb{G} \mathbb{v} \mathbb{w}$: (Origin of the Study)

$\mathbb{D}^{\circ} \mathbb{P} \mathbb{A} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{P} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{r} \mathbb{z} \mathbb{q} \mathbb{E} \mathbb{M} \mathbb{A} \mathbb{Z} \mathbb{P} \mathbb{A} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{P} \mathbb{A} \mathbb{A} \mathbb{i} \mathbb{A}$
 $\mathbb{D}^{\circ} \mathbb{A} \mathbb{v} \mathbb{A} \mathbb{A} \mathbb{Z} \mathbb{g} \mathbb{E} \mathbb{M} \mathbb{A} \mathbb{Z} \mathbb{A} \mathbb{A} \mathbb{A} \mathbb{i} \mathbb{A}$,
 $\mathbb{D} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{v} \mathbb{I} \mathbb{z} \mathbb{q} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{v} \mathbb{v} \mathbb{Y} \mathbb{z} \mathbb{q} \mathbb{P} \mathbb{E} \mathbb{q}^{\circ} \mathbb{A}^{\circ}$.
 $\mathbb{P} \mathbb{A} \mathbb{P} \mathbb{I} \mathbb{P} \mathbb{z} \mathbb{A} \mathbb{v} \mathbb{P} \mathbb{E} \mathbb{q} \mathbb{A}^{\circ} \mathbb{E} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{P} \mathbb{E} \mathbb{g} \mathbb{P}$
 $\mathbb{U} \mathbb{A} \mathbb{U} \mathbb{A}^{\circ} \mathbb{g}^{\circ} \mathbb{A} \mathbb{U} \mathbb{Z}^{\circ} - \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} - \mathbb{A}^{\circ} \mathbb{Z} \mathbb{E} - 1349$
 $\mathbb{E}^{\circ} \mathbb{P} \mathbb{A} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{J} \mathbb{E} \mathbb{A}^{\circ} \mathbb{Y} \mathbb{z} \mathbb{P} \mathbb{I} \mathbb{Q} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{A} \mathbb{i} \mathbb{A}^{\circ} \mathbb{E} \mathbb{A} \mathbb{g} \mathbb{A} \mathbb{Q} \mathbb{A}^{\circ} \mathbb{A} \mathbb{I} \mathbb{z} \mathbb{A} \mathbb{C} \mathbb{x}^{\circ} \mathbb{A}^{\circ} \mathbb{t} \mathbb{U} \mathbb{A}^{\circ} \mathbb{A} \mathbb{I} \mathbb{z} \mathbb{A}$. $\mathbb{C} \mathbb{A} \mathbb{Z} \mathbb{g}$
 $\mathbb{A}^{\circ} \mathbb{Z} \mathbb{v} \mathbb{G} \mathbb{z} \mathbb{A}^{\circ} \mathbb{z} \mathbb{A} \mathbb{P} \mathbb{A} \mathbb{g} \mathbb{P} \mathbb{A} \mathbb{V} \mathbb{Y} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{V}$. $\mathbb{D} \mathbb{z} \mathbb{A} \mathbb{A} \mathbb{i} \mathbb{A}^{\circ} \mathbb{E} \mathbb{A}^{\circ} \mathbb{C} \mathbb{A} \mathbb{W} \mathbb{n} \mathbb{v} \mathbb{A} \mathbb{A} \mathbb{V} \mathbb{A} \mathbb{Y} \mathbb{A} \mathbb{C} \mathbb{A}^{\circ} \mathbb{Z} \mathbb{I} \mathbb{A}^{\circ} \mathbb{A} \mathbb{n} \mathbb{P}$. $\mathbb{A} \mathbb{Q} \mathbb{A} \mathbb{i} \mathbb{A}^{\circ}$
 $\mathbb{A} \mathbb{i} \mathbb{A} \mathbb{Z} \mathbb{E} \mathbb{A} \mathbb{C} \mathbb{U} \mathbb{Z} \mathbb{E} \mathbb{P} \mathbb{A} \mathbb{A} \mathbb{V} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{E} \mathbb{P} \mathbb{A} \mathbb{v} \mathbb{E} \mathbb{A}^{\circ} \mathbb{A} \mathbb{U} \mathbb{E} \mathbb{A}^{\circ} \mathbb{A} \mathbb{A} \mathbb{W} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{V} \mathbb{A} \mathbb{U} \mathbb{A} \mathbb{E} \mathbb{E} \mathbb{U} \mathbb{E} \mathbb{A} \mathbb{g} \mathbb{A}^{\circ} \mathbb{G} \mathbb{z} \mathbb{I} \mathbb{A}^{\circ}$
 $\mathbb{Y} \mathbb{E} \mathbb{j} \mathbb{v} \mathbb{Z} \mathbb{I} \mathbb{A}^{\circ} \mathbb{A} \mathbb{n} \mathbb{P}$. $\mathbb{C} \mathbb{A} \mathbb{W} \mathbb{n} \mathbb{v} \mathbb{A} \mathbb{Q} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{Z}^{\circ} \mathbb{Z} \mathbb{A} \mathbb{r} \mathbb{A} \mathbb{A}$, $\mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{G} \mathbb{z} \mathbb{I} \mathbb{A}^{\circ} \mathbb{A} \mathbb{C} \mathbb{A} \mathbb{Z} \mathbb{P} \mathbb{I} \mathbb{A} \mathbb{S} \mathbb{A} \mathbb{C}^{\circ} \mathbb{Z} \mathbb{I} \mathbb{A} \mathbb{Z} \mathbb{A}$
 $\mathbb{U} \mathbb{A} \mathbb{U} \mathbb{A}^{\circ} \mathbb{V} \mathbb{E} \mathbb{A}^{\circ} \mathbb{Z} \mathbb{E} \mathbb{Z}^{\circ} \mathbb{Z} \mathbb{A} \mathbb{r} \mathbb{A} \mathbb{A} \mathbb{C} \mathbb{x} \mathbb{D} \mathbb{A}^{\circ} \mathbb{A} \mathbb{A} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{A} \mathbb{S} \mathbb{A} \mathbb{E} \mathbb{A} \mathbb{E} \mathbb{A}^{\circ} \mathbb{E} \mathbb{Z} \mathbb{I} \mathbb{A} \mathbb{A} \mathbb{V} \mathbb{A} \mathbb{A} \mathbb{r} \mathbb{z} \mathbb{A}^{\circ} \mathbb{A}^{\circ}$.

$\mathbb{C} \mathbb{z} \mathbb{i} \mathbb{A} \mathbb{i} \mathbb{E} \mathbb{z} \mathbb{A}^{\circ} \mathbb{Z} \mathbb{A} \mathbb{P} \mathbb{v}$ (Methodology)

$\mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{I} \mathbb{P} \mathbb{t} \mathbb{P} \mathbb{v} - \mathbb{A} \mathbb{A} \mathbb{E} \mathbb{A} \mathbb{Z} \mathbb{E}$, $\mathbb{A}^{\circ} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{f} \mathbb{A} \mathbb{P} \mathbb{g} \mathbb{t}$, $\mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{P} \mathbb{g} \mathbb{t}$, $\mathbb{A} \mathbb{W} \mathbb{p} \mathbb{v} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{P} \mathbb{g} \mathbb{t} \mathbb{z}$
 $\mathbb{C} \mathbb{z} \mathbb{i} \mathbb{A} \mathbb{i} \mathbb{E} \mathbb{P} \mathbb{I} \mathbb{A} \mathbb{S} \mathbb{A} \mathbb{C}^{\circ} \mathbb{Z} \mathbb{A} \mathbb{v} \mathbb{S}^{\circ} \mathbb{A}^{\circ} \mathbb{A} \mathbb{A} \mathbb{T} \mathbb{Z} \mathbb{I} \mathbb{E} \mathbb{A}^{\circ} \mathbb{Z} \mathbb{A} \mathbb{P} \mathbb{v} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{E} \mathbb{A}^{\circ} \mathbb{F} \mathbb{C} \mathbb{z} \mathbb{i} \mathbb{A} \mathbb{i} \mathbb{E} \mathbb{A}^{\circ} \mathbb{M} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{r} \mathbb{P} \mathbb{E} \mathbb{A} \mathbb{r} \mathbb{z}$.
 $\mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{P} \mathbb{w} \mathbb{P} \mathbb{A} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{P} \mathbb{z} \mathbb{D} \mathbb{P} \mathbb{w} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{C} \mathbb{j} \mathbb{A} \mathbb{E} \mathbb{A}^{\circ} \mathbb{A} \mathbb{E} \mathbb{A} \mathbb{Z} \mathbb{A} \mathbb{P} \mathbb{A} \mathbb{Z} \mathbb{C} \mathbb{A} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{D} \mathbb{v} \mathbb{E} \mathbb{g} \mathbb{A}^{\circ} \mathbb{A} \mathbb{i} \mathbb{z} \mathbb{J} \mathbb{A} \mathbb{z} \mathbb{P} \mathbb{A} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{Z}$
 $\mathbb{P} \mathbb{A} \mathbb{g} \mathbb{A}^{\circ} \mathbb{A} \mathbb{D} \mathbb{v} \mathbb{z} \mathbb{C} \mathbb{j} \mathbb{A} \mathbb{U} \mathbb{A} \mathbb{V} \mathbb{F} \mathbb{A}^{\circ} \mathbb{Z} \mathbb{A} \mathbb{P} \mathbb{v}$, $\mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{P} \mathbb{A} \mathbb{i}$, $\mathbb{A} \mathbb{A} \mathbb{A} \mathbb{D}$, $\mathbb{A} \mathbb{D} \mathbb{V} \mathbb{g} \mathbb{A} \mathbb{v} \mathbb{z}$.

$\mathbb{C} \mathbb{A} \mathbb{v} \mathbb{g} \mathbb{i} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{Y} \mathbb{o} \mathbb{i} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{U}$: (Inter Disciplinary Text relevance)

$\mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{Y} \mathbb{A} \mathbb{g} \mathbb{A}^{\circ} \mathbb{Y} \mathbb{z} \mathbb{A} \mathbb{E} \mathbb{V} \mathbb{U} \mathbb{Y} \mathbb{w} \mathbb{g} \mathbb{E} \mathbb{A} \mathbb{Z} \mathbb{A} \mathbb{E} \mathbb{A}^{\circ} \mathbb{M} \mathbb{q} \mathbb{E} \mathbb{A}^{\circ} \mathbb{j} \mathbb{A} \mathbb{W} \mathbb{A} \mathbb{i} \mathbb{A}^{\circ} \mathbb{A} \mathbb{W} \mathbb{I} \mathbb{E}$, $\mathbb{A} \mathbb{A} \mathbb{v} \mathbb{E}$,
 $\mathbb{Q} \mathbb{A} \mathbb{i} \mathbb{i} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A} \mathbb{V} \mathbb{g} \mathbb{A}^{\circ} \mathbb{J} \mathbb{Z} \mathbb{v} \mathbb{Z} \mathbb{A} \mathbb{V} \mathbb{E}$.

$\mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{C}^{\circ} \mathbb{A} \mathbb{V}$ ($\mathbb{V} \mathbb{E} \mathbb{V} \mathbb{E}$) $\mathbb{V} \mathbb{E} \mathbb{A}^{\circ} \mathbb{Q} \mathbb{v} \mathbb{A} \mathbb{E} \mathbb{A}^{\circ} \mathbb{z} \mathbb{E} \mathbb{r} \mathbb{A} \mathbb{P} \mathbb{j} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ}$.

$\mathbb{z} \mathbb{A} \mathbb{r} \mathbb{A} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{P} \mathbb{A} \mathbb{v}$: $\mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{f} \mathbb{A}^{\circ} \mathbb{E} \mathbb{z} \mathbb{U} \mathbb{A} \mathbb{t} \mathbb{A} \mathbb{A} \mathbb{I} \mathbb{z} \mathbb{A} \mathbb{A} \mathbb{A}^{\circ} \mathbb{Y} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{g} \mathbb{A}^{\circ} \mathbb{g} \mathbb{A} \mathbb{d} \mathbb{i} \mathbb{Y} \mathbb{z} \mathbb{A} \mathbb{P} \mathbb{v}$
 $\mathbb{G} \mathbb{z} \mathbb{E} \mathbb{i} \mathbb{A} \mathbb{V} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{A} \mathbb{C} \mathbb{A}^{\circ} \mathbb{P} \mathbb{P} \mathbb{A}^{\circ} \mathbb{A} \mathbb{E} \mathbb{A} \mathbb{U}^{\circ} \mathbb{A}$, $\mathbb{A}^{\circ} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{E} \mathbb{A} \mathbb{i} \mathbb{U}^{\circ} \mathbb{A} \mathbb{Y} \mathbb{w} \mathbb{A} \mathbb{C} \mathbb{A}^{\circ} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{Q} \mathbb{A}^{\circ} \mathbb{E} \mathbb{q} \mathbb{A}^{\circ} \mathbb{A}^{\circ}$
 $\mathbb{e} \mathbb{A} \mathbb{j} \mathbb{U} \mathbb{E} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{P} \mathbb{A} \mathbb{v}$. $\mathbb{E} \mathbb{z} \mathbb{g}^{\circ} \mathbb{Z} \mathbb{A} \mathbb{Z}$:

1. $\mathbb{C} \mathbb{A} \mathbb{W} \mathbb{n} \mathbb{v} \mathbb{A} \mathbb{Q} \mathbb{A} \mathbb{i} \mathbb{A}$: ($\mathbb{O} \mathbb{Y} \mathbb{Z} \mathbb{A} \mathbb{j} \mathbb{P} \mathbb{A} \mathbb{Q} \mathbb{A} \mathbb{i} \mathbb{A}$) $\mathbb{A}^{\circ} \mathbb{E} \mathbb{A} \mathbb{Z} \mathbb{A} \mathbb{Z} \mathbb{A} \mathbb{E} \mathbb{g} \mathbb{U} \mathbb{z} \mathbb{A} \mathbb{r} \mathbb{A} \mathbb{i} \mathbb{A} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{C} \mathbb{A}^{\circ} \mathbb{A}^{\circ}$
 $\mathbb{P} \mathbb{A}^{\circ} \mathbb{A}^{\circ} \mathbb{E} \mathbb{U} \mathbb{E} \mathbb{A}^{\circ} \mathbb{P} \mathbb{A} \mathbb{i} \mathbb{I}$.



2. C₅AWnv a®AiÄ (C££¥ZÁjp a®AiÄ), aÆ P®, zÁPU zÄrAiÄÄ a aÆ, UtP®, PÁSÄð£AiÄ PÄ«ÄðPgÄ, P£¶, PÆ° PÄ«ÄðPgÄ aÄVÄ EvggÄ.

C_AWnv a®AiÄz° aÄ»¼AiÄ Áaíáfp ¨zv :

,ÁíáfP ``zv JAŠÄZÄ DzÁAiÄª£Ä PÁAiÄÄPÆ¼®Ä ,PÄögª K¥ÁðqÄ ªíárgª
fÄª£ZÁqP DzÁAiÄªª C®.

1. gÁŦÁiÄ «aíá a;a,í,
2. ¥EgP DzÁAiÄP CÁPÄ±«@zÄ EzlgE §qv£z »EŦAii° MzV,Äz gPuÁvP
ÄAiÄ a;a,í E° C,AWnv^aÁVgÁvz. ^aEz@EÁiÄzÄ, ^agÁzEiÄU, ^aÄw-ÄAz
^aÄw, CÉÁgEÄUi, DP¹PU¹/Ä, CÉÁ°Áv, EvÁ£, Az“¹ÄU¹° ¥EgP a;a,íÄEÄ
aÄ»¹/ÄiÄgÄ a;a,í¹vÁV aiÁRPÉ¹/ÄgÄ. JgqEÁiÄzÄ, ¹ÁiÁfP PÄit, Ä£, Äa
§qd£jU £Ä zÄ§ð°jU, C,°ÁiÄPjU Eg^a ÄqÄ^a AiEÄdEÁiÄEÄ aÄ»¹/ÄiÄgÄ
DAiEÄf¹PÉArgÁvÁg. gÁdQÄiÄ vVÄz±ÄU¹/UE C,AWnv ^a@ÁiÄz, ¹ÁiÁfP
ÄzvAiÄ a;a,íUE Äg^aÄz, ÄSÄz«@£zlgE, ¹ÁiÁfP PÄit AiEÄdEÜ¹/EÄ
C,AWnv aÄ»¹/Ä^a@ÁiÄÄ, AWn¹PÉArgÁv^a.

Zjv-^aÁ, ^a- , ^aÄ, ^aÄ: (Opportunities & Challenges)

$a_{\lambda} \gg \frac{1}{4} Gz \bar{A} \bar{E} \bar{A} U^a @ \bar{A} i \bar{A} z^{\circ} v \bar{E} \bar{I} \bar{A} \bar{E}^a i \bar{A} i \bar{E} z C^1 v \bar{A} i \bar{A} \bar{E} \bar{A} \bar{I} \bar{z} \bar{A}^a i \bar{A} d \bar{C} \bar{A} z$
 $, a i \bar{A} d \bar{P} \bar{I} @ \bar{E} i \bar{A} \bar{A} V g \bar{A} v z. K P \bar{A} z g, C a \bar{I} U^a \bar{E} q \bar{A}^a E g \bar{A}^a \bar{A}^a i \bar{A} f \bar{P}, D y \bar{O} \bar{P}, \bar{A} \bar{A}, \bar{I} w \bar{P},$
 $g \bar{A} d Q \bar{A} i \bar{A} @ \bar{E} i v U^a \bar{A} \gg \bar{A} U \bar{A} V \bar{A} \bar{A} v \bar{A} \bar{A} v, \bar{A} \bar{A} \bar{P} \bar{A}^{\circ} \bar{A} \bar{E} a_{\lambda} \gg \frac{1}{4} \bar{A} i \bar{A} g f \bar{A}^a \bar{E} \bar{A} z w^{\circ} \bar{A} U \bar{E} f \bar{A}^a \bar{E} \bar{P} \bar{A} \bar{A} z$
 $\bar{S} U V \bar{E}, \ll a^g a_{\lambda} z \ll \pm \bar{A} \mu u^{\circ} \bar{A} U \bar{E}, \bar{A}^a i \bar{A} f \bar{P}, A g Z \bar{E} \bar{A} i \bar{A} \bar{E} J Z v a_{\lambda} \gg \frac{1}{4} U, a i \bar{A} d \bar{A} \bar{I} D y \bar{O} \bar{P}$
 $f \bar{A}^a \bar{E} \bar{P} \bar{A} V E g \bar{A}^a J g q \bar{A} D \bar{A} i \bar{A} a \bar{A} U^a \bar{A} C, A W n v a @ \bar{A} i \bar{A}^{\circ} \bar{A} U \bar{E} C a g, \bar{A}^a i \bar{A} f \bar{P} \bar{A} z v, \gg A, z \bar{E} d \bar{O} \bar{E} i,$
 $\bar{S} \bar{A} v \bar{A} g, v \bar{A} z \bar{I} z \bar{I} \bar{P} \bar{E} \bar{A} \bar{E}, \bar{A} j v i \bar{P} v, a_{\lambda} z a_{\lambda} \pm j \bar{A} g a \bar{E} \bar{A} \bar{I} \bar{A} a i \bar{A} q \bar{A} w g \bar{A}^a a_{\lambda} \gg \frac{1}{4},$
 $\bar{A} \bar{E} g i \ll a^{\circ}, \bar{A} \bar{E} q \bar{P} \bar{A}^a i \bar{A} j \bar{A} i \bar{A} g \bar{A}, \bar{P} \bar{A} i \bar{A} j a i \bar{A} v \bar{A} i \bar{A} g, \bar{A} \bar{A}, \bar{I}, \ll Z \bar{I} \bar{A} z \bar{E}, {}^2 P t, \bar{A} \bar{E} t \bar{O}$
 $\bar{P} \bar{E} i \bar{A} \bar{A} \bar{O} \bar{P}, \bar{A} \bar{R}, a i \bar{A} \bar{E} v, a_{\lambda} \gg \frac{1}{4} \bar{A} a \bar{A} \bar{Q}, \bar{A} v \bar{A} v \bar{O} i z \bar{C} \bar{P} \bar{A} U^a \bar{A}, \bar{E} \bar{A} z \bar{A} z a i \bar{A} \bar{E} i \bar{P} \bar{A} \bar{A} v$
 $z a \bar{E} \bar{P} \bar{E} \bar{A} \bar{I} {}^1 \bar{A} i \bar{A} C^1 v, \bar{A} \bar{Q} \bar{A} t \bar{O} \bar{A} v z. E \bar{E} \bar{A} C, A W n v a @ \bar{A} i \bar{A} U^a {}^2 P t, a g z Q u,$
 $G z \bar{A} \bar{E} \bar{A} U, \bar{A}^a i \bar{A} f \bar{A} \bar{P} q t @ r, \bar{A} g z \bar{P} U \bar{A} i \bar{A} \bar{A}.$

,aĀPÁ°ĀE aĀ»¼Aiāg ,ÁAẏZÁ-ĀP fĀĀE ẏzw °ÁUĒ ,Ā,A,ivĀZ fĀĀE
 pĀĀZ SÚV ,«agĀZ «±μuAiĀ ,ÁaiĀfP ,AgZĒAiĀ ,aĀeĒĀyðP fĀĀE aĒĒ®, Ezg
 Ē-AiĀ JgqĀ ĄPĀU¼Ā C,AWnv GzĒĒU a®AiĀ °ÁUĒ aĀ»¼AiĀ ,ÁaiĀfP ̣zv CAzg
 EAzĀ JZv aĀ»¼Ā £g Šz-ĀU-ĀPĀ.

UÄj aÄvÄ GzÄ±U¼Ä (Aims & Objectives)

1. C,AWnv a@AiÄ° aÄ»¼AiÄ ¥gÁÇÄEv-ÄÄZ aÄÄ¼ÄV ,ÁÇÄEvAiÄ
WÄEv-ÄÄZ "Á¼a ¥Ætð °PÄ °ÆAÇZ a¼ÄVÄÄV¼.



2. $\alpha \nabla \text{I} \text{ } \alpha \text{gAvg}^{\alpha \text{AV}} \text{D}^{\text{EAA}}, \text{AA} \text{I} \text{ZAA}, \text{VQ}\delta, \text{AA} \text{I} \text{ZAA}, \text{ } \alpha \text{Z}\delta \text{g} \text{VUZAP}^{\text{EYAA} \text{I} \text{ZAA}} \text{ } \alpha \text{V}\delta \text{ } \alpha \text{I}\text{AE} \text{SZ}\text{AQE} \ll \text{ } ^{\alpha} \text{ } ^{\text{EPOVAI}} \text{ } ^{\alpha} \text{C,AWnv} \text{ } ^{\alpha} \text{ } \text{AI}\text{AZ} \text{ } \alpha \text{AA} \gg \text{ } ^{\text{YAAI}} \text{AAg} \text{ } \text{vAAI} \text{ } ^{\text{AAIAI}} \text{fP} \text{ } \text{ } \text{ZVAI}\text{AA} \text{Cj} \ll \text{ } \alpha \text{AZ} \text{ } \text{wAAIAI}\delta \text{EP}^{\text{UEAQ}} \text{AA} \text{ } \text{YUW} \text{ } ^{\alpha} \text{EAZ}\text{IVAg} \text{JAS}\text{AZAA} \text{F} \text{CZ}\text{AI}\text{AE} \text{GZ}\text{AA} \pm.$

DAvjP DzÁgU^{1/4}Ä (Internal References)

eÁUwǺpǵt z , a iÁdz a j a , eÁw¥zw, a iÁgǺpm , A, w, a t ð ¨ Áz, £A©P,
DZgu, a iÉqiz °, j£ ° a ¨ »¼AiÁÉ ¨ »A, a ¨ vǺ zÉdð£U¼U M¼¥r, ¨ ¨ a iÁfP,
DyðP 1wUw a ¨ »¼AiÁÉ ¨ ZjvAiÁV1zǵ£ EA¢£ DzǺp Gz£ÁU a©Aiáz °
a ¨ »¼AiǺǵ v ¨ ¨ « ¨ ¨ P2Ǻv- ¨ ¨ Az JZvǺ C, Awnv , a iÁd a £ ¨ g£! 1P£AqǺ v ¨ ¨
Á¢£ ¨ ¨ £a iÁ£U¼v °£q¼ ¨ ¨ ¨ ¨ ¨ vU¼qU a ¨ ¨ R a iÁqǺwzÁq.

2.2.2 External References

,^aiÁdz ¥Ä£gî gZ£UÁV C,AWnv ^a@AiÄZ ^aÄ»¼AiÄgÄ JgqÄ ,ÁzivU¼£Ä
 JzÄj,ÄwzÁg.

1. Eg^āa ,A¥EÆU¼/EÄ G¥AiÆÄV, @Ä, 2 C^aU¼/ aÄÄ- v^aÄ °PÆÄ ,Á¢, @Ä DPU
Eg^āa C^aPÄ± aÄVÄ C^aU¼/EÄ vEUÄV ziq¥r, @Ä DPU @ÄÄaÜCg^aälg
,ÄaíÁFP ,ÄEaíÆU¼ ÄzvAiÄ PÄYfUÄÄ,g vÆÄÄ vÄÄ vÆQV1PÆÄÄwzÄ¼.

CzAiÆz ¥, Ävv – Cxið, Ä«P (Signification of the Study)

$a^{\text{A}} \gg \frac{1}{4}$ $f^{\text{A}} \text{E} \text{Z}^{\circ}$ C,AWnv GzÆÄU $a^{\circ} \text{Ai}^{\text{A}}$ MAzÄ $\neq \text{jP}^{\circ} \text{E}$ $^{\circ} \text{E} \text{Z}^{\text{A}}$, Eäd
 $\text{,T}^{\text{A}} \text{Pgt} \text{a}^{\text{C}}$ $^{\circ} \text{E} \text{Z}^{\text{A}}$. $a^{\text{A}} \gg \frac{1}{4}$, $\text{S}^{\circ} \text{R}^{\frac{1}{4}} \text{ÄU}^{\text{A}} \text{a}^{\text{A}} \text{Z}^{\text{A}}$ vÄÄ EA©Z $\pm a^{\text{A}}$ $^{\circ} \text{ÄU}^{\text{E}}$ vEÄ $\text{''}^{\text{A}} \text{E}^{\text{A}} \text{vPv}^{\text{A}} \text{ÄZ}$.
 $\text{,E}^{\circ} \text{R}^{\text{''}} \text{U}^{\frac{1}{4}}$ C $\text{a}^{\text{P}} \text{Ä} \pm$, $\text{,E}^{\circ} \text{R}^{\text{''}} \text{U}^{\frac{1}{4}}$ C ''^{A} , $\text{,A} \neq \text{E}^{\text{A}} \text{E}^{\circ} \text{U}^{\frac{1}{4}}$, $\text{z}^{\frac{1}{4}} \text{P}$, $\text{,A} \neq \text{E}^{\text{A}} \text{E}^{\circ} \text{U}^{\frac{1}{4}}$ $\text{z}^{\text{A}} \text{S}^{\circ} \text{D}^{\frac{1}{4}} \text{P}$, EAv $^{\circ}$
 $\text{,Ä}^{\text{A}} \text{a}^{\text{A}} \text{fP}$ $\text{''}^{\text{z}} \text{vU}^{\text{A}} \text{V}$ S $\text{Z}^{\text{A}} \text{P}^{\text{E}} \text{Ä}$ $\text{1P}^{\text{A}} \text{U}^{\frac{1}{2}} \text{VAV}$ EÄg $\text{a}^{\text{A}} \text{i}^{\text{A}} \text{rP}^{\text{E}} \text{Ä}^{\frac{1}{4}} \text{Awg}^{\text{A}}$ $a^{\text{A}} \gg \frac{1}{4}$ $\text{1}^{\text{A}} \text{Pgt}$ - $\text{og}^{\text{A}} \text{Pgt}$ $\text{U}^{\frac{1}{4}}$
 $\text{E}^{\text{A}} \text{Ä}^{\circ}$ vEÄEÄ vÄÄÄ $\neq \mu \mu^{\text{A}}!$ $\text{1P}^{\text{E}} \text{Ä}^{\frac{1}{4}} \text{Awz}^{\text{A}} \text{Ä}^{\frac{1}{4}}$.

Š-Áqí , aÍÁdz ° ¥ÁgÁµgĀ , P@ , ĒR̄ · · U¼ĒĀ CĒĀ · « , ÁwgĀ aÁU vAveÁĒ , gPu ,
 aÁ° EU¼ ° Ē GzĒĀU , , aĀĒ° aÍÁzÍaĀ , Á° , PĀv. EAZĀ aĀ»¼ vĒĀ PÁÁĪP
 Aiiā aÍÁzÁzgĒ av aASAv DAiĀ v¥zĀ Ēq1PĒAqĀ SgÁwzÁ¼. MAZĀ aĀ¼ PÁÁĪPz ° PaĀ
 vÍzg D ±ā PÁPÍPzAv JAZĀ °ĒĀ°1 CAv° aÍU ĒÁÁĪP ĒgP JAZĀ C,AWnv
 aĀ»¼AiĀgĀ zĒAiĀđ aĀvĀ DvĀ«±Ā, ĄAz Š-ÁqivAiĀ , aĀRĒĀ
 aĀSÁaĀTAiiÁV1PĒĒÁwzÁq.

C_AWnv a®AiÄz ° JzÄqAUÄa fÄa£ÁZÁqP C£Ë¥ZÁjP ``zvU¼Ä.

1. "ĖwP ,A¥£Æ® : DzÁAiÄ, "Æ«Ä, ¢ÄgÄ, Cg t : aÁ, Á£.



2. $a\ddot{A} \gg \frac{1}{4} \dot{A}, A \neq E \in \mathbb{I} : a\ddot{A} \gg \frac{1}{4} C^a g \pm \dot{A} j \ddot{A} g \dot{\dot{I}}, z\ddot{A} r^a \ddot{A}, P \ddot{\pm} \circ \dot{\dot{I}}, Z \dot{A} u \dot{A} P v \mathbb{E} \mathbb{S} \circ \ddot{A}^a \ddot{A} \ddot{A} R$
 $a \dot{\dot{I}} Q v.$
3. $\ddot{\ddot{E}} \Phi P, A \neq E \in \mathbb{R} : C^a g^\circ \mathbb{E} e \dot{A} \mathbb{E}, C^a g \ddot{A} \neq q z^a i \dot{A} \gg w u \frac{1}{4} \ddot{A}, C^a g \ddot{A} a A w, \ddot{A}^a$
 $P \circ \mathbb{E} U \frac{1}{4} \ddot{A} C^a g P \ddot{\pm} \dot{\ddot{A}} z \dot{A} j v \ll z \dot{\dot{I}}.$
4. $D y \ddot{D} P, A \neq E \in \mathbb{R} : v \dot{A} \ddot{A} \dot{U} \frac{1}{2}, \ddot{A}^a z \mathbb{E} \circ \dot{A} U \mathbb{E} z \mathbb{E} \mathbb{S} \frac{1}{4} P U E g \ddot{A}^a C^a P \dot{A} \pm U \frac{1}{4} \mathbb{E} \dot{\ddot{A}}$
 $v \dot{A} \ddot{A}, \dot{\ddot{I}} \dot{\ddot{I}}^1 P \mathbb{E} \frac{1}{4} \ddot{A}^a Z \dot{A} u \dot{A} P v \mathbb{E}.$
5. $\dot{\ddot{A}}^a i \dot{A} f P, A \neq E \in \mathbb{R} : C, A W n v^a \circ \dot{A} i \dot{A} z^\circ \mathbb{E} v \mathbb{E} \ddot{\ddot{E}} \Phi P v, \dot{\dot{I}} d \mathbb{E} z^2 \ddot{A} \circ v,$
 $U \dot{A} \circ \dot{A} g v, D v \ll \pm \dot{\ddot{A}}, z \dot{\dot{A}} i \dot{A} \ddot{D} z C \mathbb{E} \mathbb{E} \dot{\dot{I}}, \dot{A} i \mathbb{E} \ddot{A} d \mathbb{E} U \frac{1}{4} \ddot{A}.$

F aÄÄ°E J Á ,A¥E/E/Ü¼/EqE C,AWnv a°AiÄz aÄ»¼ vÁEÄ S¼,S°ÄzÁz ,A¥E/E/Ü¼Ä v£U z£gPÄa C aP± C a|U¼, aÄÄ°gÄa °AiÄAvt a£Ä °AiÄAw¹P£¼ÄÄvÄ z£q aÁUÄvÄ ,ÁU°ÄPÄ. °AUÄV aÄ»¼ C£Ä£ ,Á£a iÁE£Az ¥Äv ,Á£a iÁEPI v££EÄ vÁEÄ ¥wüÄ!¹P£¼ÄwzÄ£.

$a_{\lambda} \gg \frac{1}{4}$ C₁AWlÉÁvP GzÆiÄU^a@AiZ ° vE| , ÁaiÁfP, WEv ° ÁUE “zvUÁV
C₁vAiÄEÄ| , aÇðvÆÄ^aÄÄR^aiQv^aEÄ| , Ä| | PÆ¼ÄV-Ä vE| zÄr^aÄU vP| vE| PÄ±® vg»v
zÉ»P ¥j±ä^aEÄ| CEÁagtuÆ½, ÄVÄ¾. vE| C₁, aiÉvAiÄ ¥j¹wU¾EÄ| „ »¹PÆ¼ÄV-Ä
^aUð«AuquAiÄ D¾^aEÄ| Pr^aÄUÆ½, ÄVÄ, ¥juä^aÄPjAiiZ °ÆgÄI Èq, ÄVÄ
LPiaÄv^aEÄ| , Ä¢, ÄwgÄ^aiZÄ , ±QÄPg tP| , aiÄdz ¥ÄEgi ¢aiÄðtP| «ÄQ^aÄ»¼
J±¹PÆ¼ÄVÄ¾.

C,AWnv a@AiAz ° a>>¼AiAgÄ UtöAAiÄ ,ASiAi° zÄrAiÄwGäa|zP! PÄgt
vaÄU 1P! cÄWÄðacAiÄEÄ zÄraÄUÄV 1z!aiÄrPÆ¼ÄwGäa|zÄ, vaÄ fÄa£z ¥jP@EU
,ASAç¹zAv SzÄPEÄ Sz´aauUE½1PÆ¼ÄwGäa|zÄ, DzÄöÄPgtz F dUw£ F
a|a ,AiEq£ °EÄZÄtPaiaÄrPÆ¼Äv-Ä v£! GzÆÄUz C°ðvU¼EÄ vÄEÄ
°a¹PÆ¼ÄwGäa|zÄ.

°Æ®z° °Æ¼ª|zÄ, PÜÁjPU¼° zÄrAiÄª|zÄ, ªÄEP®, PA¥¼U¼°£ ,ZiVÁ
P®, EvÁ¢ zÄrªU¼° vªÄÄ vÁª| ªª®ACiiv¼P¼Äwqª|zÄ.

CzłAi£z wã^iÁø£U¼Ä : (Findings)

1. C,AWnv a@AiÄZ aÄ»¼AiÄgÄ «±Äµ AiÄÄ£U¼£ÄÄ
QaiiÄvPU£½¹P£¼ÄvÄg.
2. vªÄi ,Av a|Qvª£ÄÄ g/£¹¹P£AqÄ aÄÄRiªÄ»²U SgªªÄZP
¥AiÄw,ÄwZÄg.
3. ,A¥£££@U¼ ,zH/PAiÄ aÄÄ ,A¥£tð ¥¨Äv ,Ä£¹ ¥Ä£gi ¢ªiÄðtz
,ªiÄdª£ÄÄ UÄgÄw¹P£¼ÄwZÄg.
4. ,A¥£££@U¼ S¼PAiÄ aÄÄ vªÄZÄ Dz ¢AiÄAvtª£ÄÄ
,ziQU£½¹P£¼ÄwZÄg.
5. aÄ»¼ ,ªiÄ£ÄAvqz ±ªÄ «¨d£AiÄ£Ä Cjvª PÄAiÄðªªð»,ÄwZÄ¼.



6. $a \gg \frac{1}{4}$ $v \Delta \bar{E}$ $a i \Delta q \bar{A}$ $z \bar{A} r \bar{A} \bar{A} i \bar{A}$ $G v \bar{A} z \bar{E}$, $\forall \bar{A} \bar{E} g \bar{i}$ $G v \bar{A} z \bar{E}$, $\bar{A} \bar{A} \bar{E} \gg P$
 $P \bar{A} \bar{A} i \bar{A} \bar{O}$ $J \bar{A} z \bar{A}$ $\ll \bar{A} v \bar{1} P \bar{E} A q \bar{A}$ $v \bar{E}$ $a i Q v P \bar{E} A z \bar{A}$, $\bar{A} \bar{E}$ $\forall q z \bar{A} P \bar{E} \frac{1}{4} \bar{A} w z \bar{A} \frac{1}{4}$.

$\bar{A} \bar{O}$, $\bar{A} \bar{E} \bar{E}$: (Suggestions)

1. $C, A W n v$ $G z \bar{E} \bar{A} \bar{U}$ $a \bar{O} \bar{A} i \bar{A} z$ $a \bar{A} \gg \frac{1}{4} \bar{A} i \bar{A} g$ $a \bar{A} \bar{A} \bar{A}$ $\bar{E} q, \bar{A} \bar{A}$ $A i i \bar{A} \bar{A} i z \bar{A}$ $P \bar{E} v i P \bar{E}$ $\bar{E} \bar{A} g \bar{A} \bar{V}$
 $C \forall g \bar{A} z \bar{A} \bar{E} \bar{A} \bar{V}$, $\bar{A} \bar{A}$ $A i i \bar{A} \bar{A} i z \bar{A}$, $\bar{A} \bar{A} \bar{U}$, $\bar{A} \bar{A} i \bar{A} f P g t z$ $\pm \bar{A}, \bar{E}$ $\bar{E} \bar{A} \bar{A} \bar{O}$ $g z \bar{E} A i i \bar{A} \bar{V} \bar{O}$,
 $g \bar{A}$, $\bar{A} \bar{P} \bar{A}$.
2. $C, A W n v$ $a \bar{A} \gg \frac{1}{4} \bar{A} i \bar{A} j U \bar{A} \bar{V}$ $P \bar{A} \bar{E} \bar{E} \bar{E} \bar{A} \bar{U} \frac{1}{4} \bar{A}$ $e \bar{A} j A i i \bar{A} \bar{U} \bar{A} \bar{P} \bar{A}$.

$\bar{A} \bar{A} i \bar{A} d P i$ $C z i \bar{A} i \bar{A} \bar{E} \bar{O} \bar{A} z \bar{A} \bar{U} \bar{A}$ $\bar{A}$ $P \bar{E} q \bar{A} \bar{U}$ (Contribution to the society)

$C, A W n v$ $a \bar{A} \gg \frac{1}{4} \bar{A}$, $\bar{A} \bar{A} X P$ $a \bar{O} \bar{A} i \bar{A} \bar{U} \frac{1}{4} \bar{O}$ $v \bar{E}$ $\bar{O} z \bar{A} \bar{O} g$ $P \bar{E} U \bar{E} \frac{1}{4} \bar{A} \bar{A} v$, $C \bar{O} \bar{A} \bar{E} \bar{O}$
 $\bar{O} \bar{E} A z \bar{A} \bar{A} v$ $z i \gg P \bar{A} \bar{A} \bar{V}$, $a i \bar{A} \bar{E} \bar{1} P \bar{A} \bar{A} \bar{V}$, $\bar{A} \bar{A} v \bar{E} \bar{A} \bar{O} \bar{E}$, $\bar{A} \bar{O} \bar{1} z \bar{A} v \bar{A} \bar{V}$, $\bar{A} i \bar{A} d z \bar{O}$ $D y \bar{O} P$
 $\bar{A} \bar{A} \bar{O} \bar{A} \bar{A} \bar{E} i \bar{A} \bar{E} \bar{A} \bar{O}$ $D v i \ll \pm \bar{A}$, $\bar{O} \bar{A} z$ $z i \bar{A} i \bar{A} \bar{O} \bar{A} \bar{A} \bar{V}$, $\bar{A} \bar{O}$, $\bar{O} \bar{A}$ F $C z i \bar{A} i \bar{A} \bar{E}$ $\bar{A} i \bar{A} \bar{U} \bar{O}$, $\bar{E} \bar{A} A i i \bar{A} \bar{V} z$.

$\bar{A} \bar{A} g v z$, $\bar{A} \ll z \bar{A} \bar{E}$ $\bar{A} \bar{A} \bar{E} \bar{O} \bar{A} \bar{E} v$ $\bar{O} \bar{P} \bar{A} \bar{U} \frac{1}{4} \bar{A}$ $g \bar{A} d i \bar{O} \bar{A} w$ $\bar{O} z \bar{A} \bar{O} \pm P$ $v v U \frac{1}{4}$ $\bar{A} \bar{A} \bar{E} \bar{O} P$, $\bar{A} i \bar{A} \bar{E}$
 $\bar{O} \bar{P} \bar{A} \bar{U} \frac{1}{4} \bar{E} \bar{A} \bar{O}$ $S \bar{A} v j \forall r \bar{1} P \bar{E} A q \bar{A}$ $\bar{A} \bar{A} \bar{E} \bar{O} \bar{A} \bar{E} v$ $P v \bar{O} \bar{A} i P \bar{E}$ $C, A W n v$ $G z \bar{E} \bar{A} \bar{U}$ $a \bar{O} \bar{A} i \bar{A} z \bar{O}$ $v \bar{E}$
 $f \bar{A} \bar{A} \bar{E}$ $g P u \bar{A} i \bar{A} \bar{E} \bar{A} \bar{O}$, $v \bar{B}$ $v \bar{A} \bar{E} \bar{A}$, $\bar{A} g Q \bar{1} P \bar{E} \frac{1}{4} \bar{A} \bar{A} v$ $a \bar{A} \gg \frac{1}{4} \bar{U}$ $e \bar{A} \bar{U} \bar{E} w$ $\bar{A} \bar{A} \bar{E} r$, $\bar{O} \bar{A}$ F $C z i \bar{A} i \bar{A} \bar{E}$
 $\bar{O} \bar{P} \bar{A} j A i i \bar{A} \bar{V} z$.

$C, A W n v$ $G z \bar{E} \bar{A} \bar{U}$ $a \bar{O} \bar{A} i \bar{A} z \bar{O}$ $E \bar{A} z \bar{A}$ $S \bar{E} \bar{O} v i$ $P \bar{A} \forall \bar{O} U \frac{1}{4} \bar{A}$ $v \bar{E}$ $z \bar{A} \forall \bar{A} \bar{U} \bar{A} \bar{O} \bar{E} \bar{A} \bar{O}$
 $\bar{O} \bar{A} \bar{P} \bar{A} w g \bar{A} \bar{A} i z j \bar{A} z$ $a \bar{A} \gg \frac{1}{4}$ $v \bar{E}$ $\pm \ll \bar{A} P$ $\bar{O} \bar{P} \bar{A} \bar{U} \frac{1}{4}$ $g P u \bar{A} \bar{V}$ $P \bar{A} \bar{E} \bar{E} \bar{E} \bar{A} \bar{U} \frac{1}{4} \bar{A}$, $C \bar{A} i U \frac{1}{4}$ $g z \bar{E}$, $C \bar{A} i U \frac{1}{4}$
 $C \bar{E} A i \bar{A}$, $C \bar{E} \bar{A} \bar{U} \bar{A} \bar{E}$ $a i \bar{E} \bar{O} i \bar{A} i \bar{A} \forall \bar{E}$, $\forall \bar{A} \bar{E} g i g z \bar{E}$ $\bar{A} \bar{A} v \bar{A}$ $\forall U w \bar{U} \bar{A} \bar{V}$ $E g \bar{A} \bar{A}$ $\bar{O} \bar{P} \bar{A} \bar{U} \frac{1}{4} \bar{E} \bar{A} \bar{O}$ $v \bar{A} \bar{E} \bar{A}$
 $\bar{A} \forall \bar{A} \bar{O} \bar{1} P \bar{E} A q \bar{A}$ $\bar{A} \bar{E} \bar{O} P \bar{A} \bar{A} \bar{V}$ $\bar{A} \bar{A} v \bar{A}$ $\bar{A} \bar{E} w P \bar{A} \bar{A} \bar{V}$ $v \bar{E}$ $a i Q v \bar{E} \bar{A} \bar{O}$, $z i q U \bar{E} \frac{1}{2} \bar{1} P \bar{E} \frac{1}{4} \bar{O} \bar{A}$ F $C z i \bar{A} i \bar{A} \bar{E}$
 $\bar{O} \bar{P} \bar{A} j A i i \bar{A} \bar{V} z$.

Dz \bar{A} g U \bar{A} x U \frac{1}{4} \bar{A} : (Bibliography)

1. $\bar{A} \bar{A} \bar{U}$ $\bar{A} z \bar{E}$, $\bar{A} \forall \bar{A} i$ – 5, $P \bar{E} i q$ $\forall \bar{A}$, P $\forall \bar{A} \bar{O} P \bar{A} g$ $\bar{A} \bar{U} \frac{1}{4} \bar{E} g \bar{A}$, 2001.
2. $a \bar{A} \gg \frac{1}{4} \bar{A}$ $\bar{O} \bar{P} \bar{A} \bar{U} \frac{1}{4} \bar{A}$, $q \bar{A} \bar{V} \bar{A} v \bar{A}$ $P \bar{E} \mu$ $\bar{A} \bar{A} \bar{E} w \bar{O}$, $a \bar{A} \gg \frac{1}{4} \bar{A}$ $C z i \bar{A} i \bar{A} \bar{E}$ $P \bar{A} z$ $P \bar{E} i q$ $\ll \pm \ll z \bar{A} i \bar{O} \bar{A} i \bar{A}$
 $\bar{O} \bar{A} i$, 2005.
3. $\bar{O} \bar{E} \forall w P \bar{A} i \bar{A}$ $\forall \bar{A} \bar{A} \bar{R}$ $C \bar{A} P t U \frac{1}{4} \bar{A}$, $\ll d \bar{A} i \bar{A}$ $P \bar{E} \bar{A} \bar{O} i P$ $\bar{A} \bar{A} v \bar{A}$ $\forall \bar{e} \bar{A} \bar{A} t$.