

## GRANTED ABROAD (Based on e-mail of IPU dated (17/Nov/2017))

S. NO.	NFNO	LAB	TITLE	INVENTORS	PROV FILING DATE	COMP FILING DATE	APPLICATI ON NO.	STATUS	GRANT DATE	PATENT NO.	Comment for renewal on 2012
46	0112NF2012/US	NEIST	A SYNERGISTIC PHARMACEUTICAL COMPOSITION USEFUL FOR THE TREATMENT OF LUNG CANCER (MAEP)	MANTU BHUYAN, PRANAB RAM BHATTACHARYYA, PRANAB KUMAR BARUAH, NABIN CHANDRA BARUA, PARUCHURI GANGADHAR RAO, SUSHMITA BHATTACHARYA, RAKESH KUNDU, PRIYAJIT CHATTERJEE, SOMA SEAL, SANDEEP MUKHERJEE, SUMAN DASGUPTA, SUDIPTA MOITRA, SHELLEY BHATTACHARYA, SAMIR BHATTACHARYA		23-12-2014	14/410,844	IF	18-04-2017	9622987	
45	0131NF2012/US	NEIST	A PROCESS FOR THE PREPARATION OF OXIDIC NANO SHEETS COATED MONOLITHIC CATALYSTS USEFUL FOR THE TREATMENT OF TOXIC N2O GAS (Adv Mat Sc)	RAJIB LOCHAN GOSWAMEE, MRIDUSMITA MISHRA, ANIL KUMAR SARMA BARUAH		20-05-2015	14/646333	IF	11-04-2017	9616412	
44	0112NF2012/CN	NEIST	A SYNERGISTIC PHARMACEUTICAL COMPOSITION USEFUL FOR THE TREATMENT OF LUNG CANCER (MAEP)	MANTU BHUYAN, PRANAB RAM BHATTACHARYYA, PRANAB KUMAR BARUAH, NABIN CHANDRA BARUA, PARUCHURI GANGADHAR RAO, SUSHMITA BHATTACHARYA, RAKESH KUNDU, PRIYAJIT CHATTERJEE, SOMA SEAL, SANDEEP MUKHERJEE, SUMAN DASGUPTA, SUDIPTA MOITRA, SHELLEY BHATTACHARYA, SAMIR BHATTACHARYA		25-12-2014	35037823	IF	05-04-2017	ZL 201280074 294.1	
43	0077NF2013/US	NEIST	A PROCESS FOR REDUCING CHLORONITROBENZENE CATALYZED BY PLATINUM-NANOPARTICLES STABILIZED ON MODIFIED MONTMORILLONITE CLAY(ADV MAT)	DUTTA DIPAK KUMAR, DUTTA DIPANKA		22-11-2014	14/550373	IF	15-03-2016	92,84,259	
42	0034NF2008/CA	NEIST	PROCESS FOR THE PREPARATION OF 4-(4-HYDROXYPHENYL)BUTAN-2-ONE FROM PHENOL AND 4-HYDROXYBUTAN 2-ONE USING SOLID ACID CLAY CATALYST (ADV MAT)	DUTTA DIPAK KUMAR, PATHAK MADAN GOPAL		22-09-2010	2719274	IF	29-12-2015	2719274	

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41	0017NF2010/CA	NEIST+IGIB	ACID ESTER OF 2-PYRIDINYLTIO COMPOUNDS BEARING POTENT ANTI-INFLAMMATORY PROPERTIES (NAT PROD CHEM)	SARMA JADAB CHANDRA, BORA DILIP CHANDRA, RAO PARUCHURI GANGADHAR, GHOSH BALARAM, BALWANI SAKSHI	---	10-01-2013	2805098	IF	15-09-2015	2805098	
40	0074NF2009/CN	NEIST	A METHOD FOR THE EXTRACTION OF SHIKIMIC ACID (NAT PROD CHEM)	BORDOLOI MANOBJYOTI, BORAH JAYANTA, ROY DIPAK KUMAR, DUTTA SUBHASH CHANDRA, BARUAH NABIN CHANDRA, RAO PARUCHURI GANGADHAR	---	12-09-2012	2.0118E+11	IF	22-04-2015	ZL201180013675.4	
39	0017NF2010/CN	NEIST+IGIB	ACID ESTER OF 2-PYRIDINYLTIO COMPOUNDS BEARING POTENT ANTI-INFLAMMATORY PROPERTIES (NAT PROD CHEM)	SARMA JADAB CHANDRA, BORA DILIP CHANDRA, RAO PARUCHURI GANGADHAR, GHOSH BALARAM, BALWANI SAKSHI	---	16-01-2013	201180035064.X	IF	22-04-2015	ZL201180035064.X	
38	0017NF2011/US	NEIST	A NOVEL SERIES OF 1,2,3-TRIAZOLE CONTAINING ARTEMISININ DERIVED DIMERS WITH POTENT ANTICANCER ACTIVITIES	BISHWAJIT SAIKIA, NABIN CHANDRA BARUA, PARTHA PRATIM SAIKIA, ABHISHEK GOSWAMI, PARUCHURI GANGADHAR RAO, AJIT KUMAR SAXENA, NITASHA SURI	---	14-08-2013	13/985527	IF	14-04-2015	9006467	
37	0017NF2010/GB	NEIST+IGIB	ACID ESTER OF 2-PYRIDINYLTIO COMPOUNDS BEARING POTENT ANTI-INFLAMMATORY PROPERTIES (NAT PROD CHEM)	SARMA JADAB CHANDRA, BORA DILIP CHANDRA, RAO PARUCHURI GANGADHAR, GHOSH BALARAM, BALWANI SAKSHI	---	20-07-2011	11755454.3	IF/EP DESIG.	13-08-2014	2595957	
36	0017NF2010/EP	NEIST+IGIB	ACID ESTER OF 2-PYRIDINYLTIO COMPOUNDS BEARING POTENT ANTI-INFLAMMATORY PROPERTIES (NAT PROD CHEM)	SARMA JADAB CHANDRA, BORA DILIP CHANDRA, RAO PARUCHURI GANGADHAR, GHOSH BALARAM, BALWANI SAKSHI	---	20-07-2011	11755454.3	RO/EP/NP /IF	13-08-2014	2595957	
35	0030NF2012/US	NEIST	PROCESS FOR THE ADSORPTION OF TOXIC SULPHUR BEARING GASES (MAT. SC.)	MRIDUSMITA MISHRA, RAJIB LOCHAN GOSWAMEE	---	03-01-2014	14/147246	IF	10-02-2015	8951491	
34	0074NF2009/US	NEIST	A METHOD FOR THE EXTRACTION OF SHIKIMIC ACID (NAT PROD CHEM)	BORDOLOI MANOBJYOTI, BORAH JAYANTA, ROY DIPAK KUMAR, DUTTA SUBHASH CHANDRA, BARUAH NABIN CHANDRA, RAO PARUCHURI GANGADHAR	---	12-12-2012	13/583315	IF	16-12-2014	8912357	

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33	0145NF2009/US	NEIST	SERIES OF ARTEMISININ DERIVATIVES AND PROCESS FOR PREPARATION THEREOF (NAT PROD CHEM)	GAKUL BAISHYA, NABIN CHANDRA BARUA, ABHISHEK GOSWAMI, PARTHA PRATIM SAIKIA, PARUCHURI GANGADHAR RAO, AJIT KUMAR SAXENA, NITASHA SURI, MADHUNIKA SHARMA	---	15-10-2012	13/574440	IF	23-09-2014	8841466	
32	0017NF2010/AU	NEIST+IGIB	ACID ESTER OF 2-PYRIDINYLTIO COMPOUNDS BEARING POTENT ANTI-INFLAMMATORY PROPERTIES (NAT PROD CHEM)	SARMA JADAB CHANDRA, BORA DILIP CHANDRA, RAO PARUCHURI GANGADHAR, GHOSH BALARAM, BALWANI SAKSHI	---	21-12-2012	2011281132	IF	15-05-2014	2.011E+09	
31	0017NF2010/US	NEIST+IGIB	PYRIDIN-2YL SULFANYL ACID ESTERS AND PROCESS FOR THE PREPARATION THEREOF (NAT PROD CHEM)	SARMA; JADAB CHANDRA (ASSAM, IN), BORA; DILIP CHANDRA (ASSAM, IN), RAO; PARUCHURI GANGADHAR (ASSAM, IN), GHOSH; BALARAM (NEW DELHI, IN), BALWANI; SAKSHI (NEW DELHI, IN)		18-01-2013	13/811090	IF	25-03-2014	8680288	
30	0091NF2006/CN	NEIST	METHOD FOR THE PREPARATION OF 17-ACETAMIDO-3-ACETOXY-16-FORMYL-ANDROST-5,17-DIENE AND 3-ACETOXY-2'-CHLORO-5-ANDROSTENO[17,16-B]PYRIDINE (MED. CHEM.)	ROMESH CHANDRA BORUAH, MOYURIMA BORTHAKUR, MADAN GOPAL BARTHAKUR, PARUCHURI GANGADHAR RAO, SUDIP KUMAR KAR, ANNALAKSHMI CHINNIAH, SUCHANDRA GOSWAMI, PRATAP KUMAR DAS		24-11-2010	2.0098E+11	IF	12-03-2014	ZL200980118933.	
29	0091NF2006/US	NEIST	SIMULTANEOUS METHOD FOR THE PREPARATION OF A MIXTURE OF 3-ACETOXY-17-ACETAMIDO-16-FORMYL-ANDROST-5,17-DIENE AND 3-ACETOXY-2'-CHLORO-5-ANDROSTENO[17,16-B]PYRIDINE (MED. CHEM.)	ROMESH CHANDRA BORUAH, MOYURIMA BORTHAKUR, MADAN GOPAL BARTHAKUR, PARUCHURI GANGADHAR RAO, SUDIP KUMAR KAR, ANNALAKSHMI CHINNIAH, SUCHANDRA GOSWAMI, PRATAP KUMAR DAS	---	30-09-2010	12/935877	IF	20-08-2013	8513226	
28	0034NF2008/US	NEIST	PROCESS FOR THE PREPARATION OF 4-(4-HYDROXYPHENYL)BUTAN-2-ONE USING SOLID ACID CLAY CATALYST (MAT. SC.)	DUTTA DIPAK KUMAR, PATHAK MADAN GOPAL	---	24-09-2010	12/934568	IF	25-06-2013	8471068	
27	0034NF2008/GB	NEIST	PROCESS FOR THE PREPARATION OF 4-(4-HYDROXYPHENYL)BUTAN--2-ONE USING SOLID ACID CLAY CATALYST (MAT. SC.)	DUTTA DIPAK KUMAR, PATHAK MADAN GOPAL	---	27-09-2010	1016235.2	IF	13-03-2013	2470338	

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26	0091NF2006/GB	NEIST	METHOD FOR THE SIMULTANEOUS PREPARATION OF 3-ACETOXY-17-ACETAMIDO- -16-FORMYL-ANDROST-5,16-DIENE AND 3-ACETOXY-2'-CHLORO-5-ANDROSTENO[17,6-B] PYRIDINE (MED. CHEM.)	ROMESH CHANDRA BORUAH, MOYURIMA BORTHAKUR, MADAN GOPAL BARTHAKUR, PARUCHURI GANGADHAR RAO, SUDIP KUMAR KAR, ANNALAKSHMI CHINNIAH, SUCHANDRA GOSWAMI, PRATAP KUMAR DAS	---	27-10-2010	1018142.8	IF	31-10-2012	GB2471619	
25	0091NF2006/GB in GBA	NEIST	COMPOUNDS AS ANTIULCER AGENTS (MED. CHEM.)	ROMESH CHANDRA BORUAH, MOYURIMA BORTHAKUR, MADAN GOPAL BARTHAKUR, PARUCHURI GANGADHAR RAO, SUDIP KUMAR KAR, ANNALAKSHMI CHINNIAH, SUCHANDRA GOSWAMI, PRATAP KUMAR DAS	---	26-03-2009	1211346	IF	31-10-2012	GB2488946	
24	0166NF2008/US	NEIST	METHOD OF INDUCING CHIRALITY TO EPOXIDES USING 2,3:4,6 DI-O-ISOPROPYLIDENE-2-KETO-L-GULONIC ACID MONOHYDRATE (SYNTH. ORG. CHEM.)	AMRIT GOSWAMI, KULADIP SARMA, AJIT KUMAR HAZARIKA	---	27-11-2009	12/626843	IF	04-03-2012	8148118	(IF)
23	0402NF2005/GB	NEIST	SYNTHESIS OF VANILLIN FROM AGRICULTURAL WASTE (SYNTH. ORG. CHEM.)	BORTHAKUR NALEEN	---	07-09-2008	812546	IF	15-12-2010	GB2447198	Not to be renewed
22	0118NF1994/IRA		AN IMPROVED VERTICAL SHAFT KILN USEFUL FOR MANUFACTURING CEMENT AND OTHER ALLIED PRODUCTS AND AN IMPROVED VERTICAL SHAFT KILN INCORPORATING AN IMPROVED AIR CONTROLLED DISCHARGED DEVICE (GEN. ENGG.)	BORAH UC, BARKAKATI P, DUTTA DK, BORA JJ, AHMED W, KALITA SC, BORDOLOI TK, BARUAH A						27874	to be renewed(IF )
21	0402NF2005/US	NEIST	PROCESS FOR THE PREPARATION OF VANILLIN FROM AGRICULTURAL WASTE (SYNTH. ORG. CHEM.)	BORTHAKUR; NALEEN (JORHAT, IN)	---	02-12-2007	11/705611	IF	15-07-2008	7399889	
20	0223NF2001/US	NEIST	AN IMPROVED PROCESS FOR ISOLATION OF BIOPLASTIC POLYHYDROXYBUTYRATE (PHB) FROM BACILLUS MYCOIDES RLJ B-017 (NAT. PROD. CHEM.)	BORDOLOI; MANOBJYOTI (JORHAT, IN), BORAH; BORNALI (JORHAT, IN), THAKUR; PURBALI S. (JORHAT, IN), NIGAM; JAGDISH NARAYAN (JORHAT, IN)	---	03-05-2004	10/838654	IF	25-09-2007	7273733	to be renewed(IF )

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19	0223NF2001/US	NEIST	AN IMPROVED PROCESS FOR ISOLATION OF BIPLASTIC POLYHYDROXYBUTYRATE (PHB) FROM BACILLUS MYCOIDES RLJ B-017 (NAT. PROD. CHEM.)	BORDOLOI M, BORAH B, THAKUR P, NIGAM JN	---	03-07-2003	10/613532	IF	31-10-2006	7129068	This patent is abandoned.
18	0009NF2000/US	NEIST	2-METHYLHEPTYLISONICOTINATE AND PROCESS FOR PRODUCTION THEREOF (BIOTECH DIVN.)	BORDOLOI; GOJENDRA NATH (ASSAM, IN); KUMARI; BABITA (ASSAM, IN); BORDOLOI; MANABJYOTI (ASSAM, IN); ROY; MONOJ KANTI (ASSAM, IN); BORA; TARUN CHANDRA (ASSAM, IN)	---	20-12-2001	10/027913	IF	14-02-2006	6998411	to be renewed(IF )
17	0288NF2001/US	NEIST	A PROCESS FOR THE PREPARATION OF HYDROGEN PEROXIDE FROM HYDROGEN AND OXYGEN (SYNTH. ORG. CHEM.)	BROTHAKUR N	---	21-12-2001	10/024205	IF	13-07-2004	6761874	
16	0027NF1994/US	NEIST	PROCESS FOR THE PREPARATION OF REFINED HARD SUGARCANE WAX HAVING IMPROVED QUALITIES FROM PRESS MUD (ANALYTICAL CHEM. DIVISION)	AMAL C. PHUKAN, COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH (CSIR)	---	31-03-1998	09/052133	IF	26-11-2002	6486335	
15	0116NF1994/IR	NEIST	A SEALING DEVICE (GEN. ENGG.)	DUTTA DK, AHMED W, BARKAKATI P, BORA JJ, KALITA SC, BARKATAKI A, GOSWAMI PC, BORAH UC	---	26-11-2001	38009010	IF	18-03-2002	27863	to be renewed(IF )
14	0224NF1995/US	NEIST	PROCESS FOR THE OXIDATION OF PSEUDODIOSGENIN DIACETATE TO DIOSONE FOR THE PRODUCTION OF 16-DEHYDROPREGNEOLONE ACETATE (SYNTH. ORG. CHEM.)	AMRIT GOSWAMI, RUMI KATAKY, RAMESH CHANDRA RASTOGI, ANIL C. GHOSH	---	26-03-1998	09/048279	IF	12-12-2000	6160139	to be renewed(IF )
13	0116NF1994/PE	NEIST	A SEALING DEVICE USEFUL FOR PROVIDING AIR-SEAL SELF CONTROLLED DISCHARGE OF PRODUCT FROM A PROCESS EQUIPMENT SUCH AS A VERTICAL SHAFT SKIN (GEN. ENGG.)	DUTTA DK, AHMED W, BARKAKATI P, BORA JJ, KALITA SC, BARKATAKI A, GOSWAMI PC, BORAH UC	---	29-03-1996	228	IF	31-08-2000	1557	to be renewed(IF )
12	0118NF1994/RU	NEIST	AN IMPROVED VERTICAL SHAFT KILN USEFUL FOR MANUFACTURING CEMENT AND OTHER ALLIED PRODUCED IMPROVED VERTICAL SHAFT KILN AND CONTROLLED DISCHARGED DEVICE (GEN. ENGG.)	BORAH, UC, BARKAKATI P, KUTTA DK, BORA JJ, PHUKAN P, DEY NC, AHMED W, KALITA SC, BORDOLOIT K, BARUAH A	---	26-03-1996	96106057	IF	20-06-2000	2151350	to be renewed(IF )

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11	0116NF1994/RU	NEIST	A SEALING DEVICE USEFUL FOR PROVIDING AIR-SEAL SELF CONTROLLED DISCHARGE OF PRODUCT FROM A PROCESS EQIPMENT SUCH AS A VERTICAL SHAFT SKIN (GEN. ENGG.)	DUTTA DK,AHMED W,BARKAKATI P,BORA JJ,KALITA SC,BARKATAKI A,GOSWAMI PC,BORAH UC	---	26-03-1996	96106058	IF	20-06-2000	2151352	to be renewed(IF )
10	0116NF1994/VN	NEIST	A SEALING DEVICE USEFUL FOR PROVIDING AIR-SEAL SELF CONTROLLED DISCHARGE OF PRODUCT FROM A PROCESS EQIPMENT SUCH AS A VERTICAL SHAFT SKIN (GEN. ENGG.)	DUTTA DK,AHMED W,BARKAKATI P,BORA JJ,KALITA SC,BARKATAKI A,GOSWAMI PC,BORAH UC	---	27-03-1996	S-1902/96	IF	05-11-2000	1257	to be renewed(IF )
9	0116NF1994/US	NEIST	A SEALING DEVICE USEFUL FOR PROVIDING AIR-SEAL SELF CONTROLLED DISCHARGE OF PRODUCT FROM A PROCESS EQIPMENT SUCH AS A VERTICAL SHAFT SKIN (GEN. ENGG.)	DUTTA DK,AHMED W,BARKAKATI P,BORA JJ,KALITA SC,BARKATAKI A,GOSWAMI PC,BORAH UC	---	06-07-1996	08/659959	IF	16-11-1999	5984671	to be renewed(IF )
8	0118NF1994/VN	NEIST	AN IMPROVED VERTICAL SHAFT KILN USEFUL FOR MANUFACTURING CEMENT AND OTHER ALLIED PRODUCED IMPROVED VERTCAL SHAFT KILN AND CONTROLLED DISCHARGED DEVICE (GEN. ENGG.)	BORAH UC, BARKAKATI P, DUTTA DK, BORA JJ, AHMED W, KALITA SC, BARKATAKI A, GOSWAMI PC.	---	27-03-1996	S-1901/96	IF	06-09-1999	914	to be renewed(IF )
7	0118NF1994/PE	NEIST	AN IMPROVED VERTICAL SHAFT KILN USEFUL FOR MANUFACTURING CEMENT AND OTHER ALLIED PRODUCED IMPROVED VERTCAL SHAFT KILN AND CONTROLLED DISCHARGED DEVICE (GEN. ENGG.)	BORAH UC,BARKAKATI P,DUTTA DK,BORA JJ,PHUKAN P,DEY NC,AHMED W,KALITA SC,BORDOLOI D,BARUAH A	---	29-03-1996	230	IF	11-11-1998	1098	to be renewed(IF )
6	0161NF1994/US	NEIST	AN IMPROVED PROCESS FOR THE PRODUCTION OF 16-DEHYDROPREGNENOLONE ACETATE FROM DIOSGENIN (NAT. PROD. CHEM.)	CHOWDHARY PK,BORDOLI MJ,SARMAH HP,GOSWAMI PK,SHARMA RP,BARUAH AP,GHOSH AC	---	22-01-1996	08/589708	IF	15-09-1998	5808117	to be renewed(IF )
5	0160NF1994/US	NEIST	PROCESS FOR THE PREPARATION OF ALKALI SALT OF CARBOXY ALKYL CELLULOSE (CPP DIVN.)	CHOWDHURY NATH SAIKIA,TRIDIP GOSWAMI,ANIL CHANDRA GHOSH	---	17-01-1997	08/785471	IF	09-01-1998	5801239	Not to be renewed(IF )

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4	0118NF1994/US	NEIST	AN IMPROVED VERTICAL SHAFT KILN USEFUL FOR MANUFACTURING CEMENT AND OTHER ALLIED PRODUCED IMPROVED VERTICAL SHAFT KILN AND CONTROLLED DISCHARGED DEVICE ( <b>GEN. ENGG.</b> )	UMESH CHANDRA BORAH,PRANAB BARKAKATI,DILIP KUMAR DUTTA,JAYANTA JYOTI BORA,PARAN PHUKAN,NC DEY,WAHID AHMED,SUBODH CHANDRA KALITA,DIPAK BORDOLOI,AJIT BARUAH	---	06-07-1996	08/660117	IF	14-04-1998	5738511	to be renewed(IF )
3	2370NF0000/CA	NEIST	PROCESS FOR MAKING HIGH POLYMERIC DISPERSANTS SUITABLE FOR EFFECTING SEPARATION OF CLAYS AND OTHER MATERIALS CONTAINING ACTIVE HYDROXXL GROUPS AND THE SURFACES PRESENT IN ORES AND MINERALS ( <b>MAT. SC.</b> )	SAIKAI TC,TIKE GK,MOYALAN JP,CHATTARAJ B,CHAKARAVARTY M,GANGULY D	---	01-09-1978	294603	TO	08-04-1981	1106529	
2	1804NF0000/US	NEIST	IMPROVEMENTS IN OR RELATING TO THE MANUFACTURE OF CYCLOHEXANONE-OXIME FROM CYCLOHEXANONE ( <b>SYNTH ORG. CHEM.</b> )	VSB RAO, KW GOPINATH & MS IYENGAR	---	07-12-1972	271042	TO/1991	28-06-1974	3821303	
1	1587NF0000/US	NEIST	IMPROVEMENTS IN OR RELATING TO THE NEW PROCESS FOR THE PRODUCTION OF CARBON BLACK FROM COAL ( <b>COAL DIVN.</b> )	MS IYENGAR, R HAQUE, RK CHAKRABARTI, ML DUTTA & AK SINGH.	---	10-08-1971	170541	TO/1990	20-11-1973	3773904	