

# BRAHMOS



**10** Glorious years of  
India-Russia partnership

CALENDAR 2009

**10** Glorious years of India-Russia partnership



**JANUARY 2009**

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     | 1   | 2   | 3   | 4   |
| 5   | 6   | 7   | 8   | 9   | 10  | 11  |
| 12  | 13  | 14  | 15  | 16  | 17  | 18  |
| 19  | 20  | 21  | 22  | 23  | 24  | 25  |
| 26  | 27  | 28  | 29  | 30  | 31  |     |

8th January — Muharram  
26th January — Republic Day

**FEBRUARY 2009**

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     |     | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  |     |

**DECEMBER 2008**

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
| 1   | 2   | 3   | 4   | 5   | 6   | 7   |
| 8   | 9   | 10  | 11  | 12  | 13  | 14  |
| 15  | 16  | 17  | 18  | 19  | 20  | 21  |
| 22  | 23  | 24  | 25  | 26  | 27  | 28  |
| 29  | 30  | 31  |     |     |     |     |

**MARCH 2009**

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
| 30  | 31  |     |     |     |     | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |



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# Trust & Synergy among Partners

The Indian-Russian Cruise Missile joint venture BrahMos is a brilliant example of pooling of global efforts in developing new weapon systems and it should be the model for all future joint ventures with foreign countries. BrahMos joint venture cooperation, in a short time has traveled the path from designing experimental models to serial production and supplies for induction into services.

Mr. Vladimir V. Putin  
Hon'ble President of the  
Russian Federation

28<sup>th</sup> December 2005



Co-production in India, may provide answer to the persistent problems of reliability of spares and product support for defence services. It also enables us to move beyond buyer-seller relationship, to joint production and development of technologies. BRAHMOS Supersonic cruise missile is an example of one such successful joint venture between Russia and India. I compliment those involved in this venture.

Dr. Manmohan Singh  
Hon'ble Prime Minister of India

17<sup>th</sup> May 2005



## MARCH 2009

| MON | TUE | WED  | THU | FRI | SAT | SUN |
|-----|-----|--|-----|-----|-----|-----|
| 30  | 31  | 10 <sup>th</sup> March — Makha-Nakha<br>11 <sup>th</sup> March — Mak |     |     |     | 1   |
| 2   | 3   | 4  | 5   | 6   | 7   | 8   |
| 9   | 10  | 11   | 12  | 13  | 14  | 15  |
| 16  | 17  | 18   | 19  | 20  | 21  | 22  |
| 23  | 24  | 25   | 26  | 27  | 28  | 29  |

## APRIL 2009

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
|     |     | 1   | 2   | 3   | 4   | 5   |
| 6   | 7   | 8   | 9   | 10  | 11  | 12  |
| 13  | 14  | 15  | 16  | 17  | 18  | 19  |
| 20  | 21  | 22  | 23  | 24  | 25  | 26  |
| 27  | 28  | 29  | 30  |     |     |     |

3<sup>rd</sup> April — Ram Navami  
7<sup>th</sup> April — Mahavi Jayanti  
10<sup>th</sup> April — Good Friday

## FEBRUARY 2009

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     |     |     | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  |     |

## MAY 2009

| MON | TUE | WED | THU | FRI | SAT | SUN   |
|-----|-----|-----|-----|-----|-----|-------|
|     |     |     |     |     |     | 1 2 3 |
| 4   | 5   | 6   | 7   | 8   | 9   | 10    |
| 11  | 12  | 13  | 14  | 15  | 16  | 17    |
| 18  | 19  | 20  | 21  | 22  | 23  | 24    |
| 25  | 26  | 27  | 28  | 29  | 30  | 31    |



**BrahMos**  
The Indian-Russian Cruise Missile

**BrahMos Aerospace**

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**10** Glorious years of India-Russia partnership

# Achievements

- World Leader for Supersonic Cruise Missile - **BRAND BRAHMOS**
- Multi Platform, Multi Mission, Multi Target Capability
- Most Cost Effective Weapon Complex
- Ultimate Force Multiplier for Armed Forces
- First JV between India and Foreign Partner to Design, Develop, Produce and Market Advanced Defence System
- First JV with equity share ratio of 50.5% (India) and 49.5% (Russia) - Government funded Private Sector
- First JV to integrate Public-Private Industries from India & Russia as Consortium - "Missile Industry Complex"
- Government acknowledged role model for future joint-ventures

**BRAHMOS - The War Winner!**

## MAY 2009

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     | 1   | 2   | 3   |
| 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| 11  | 12  | 13  | 14  | 15  | 16  | 17  |
| 18  | 19  | 20  | 21  | 22  | 23  | 24  |
| 25  | 26  | 27  | 28  | 29  | 30  | 31  |

## JUNE 2009

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
| 1   | 2   | 3   | 4   | 5   | 6   | 7   |
| 8   | 9   | 10  | 11  | 12  | 13  | 14  |
| 15  | 16  | 17  | 18  | 19  | 20  | 21  |
| 22  | 23  | 24  | 25  | 26  | 27  | 28  |
| 29  | 30  |     |     |     |     |     |

### APRIL 2009

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
|     | 1   | 2   | 3   | 4   | 5   |     |
| 6   | 7   | 8   | 9   | 10  | 11  | 12  |
| 13  | 14  | 15  | 16  | 17  | 18  | 19  |
| 20  | 21  | 22  | 23  | 24  | 25  | 26  |
| 27  | 28  | 29  | 30  |     |     |     |

### JULY 2009

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
|     | 1   | 2   | 3   | 4   | 5   |     |
| 6   | 7   | 8   | 9   | 10  | 11  | 12  |
| 13  | 14  | 15  | 16  | 17  | 18  | 19  |
| 20  | 21  | 22  | 23  | 24  | 25  | 26  |
| 27  | 28  | 29  | 30  | 31  |     |     |



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10

Glorious years of  
India-Russia partnership

# Striding together

## RUSSIAN FEDERATION

### NPO MASHINOSTROYENIYA

System Design  
Missile Integration  
Flight Testing

### PO STRELJA (Ural) OJSC

Composite Fibre Reinforced  
Metal (CFRP) Structure  
Roughing Engines  
Missile Integration

### ORANIT, St. Petersburg

Seeker  
Software & Simulation  
Checkout Equipment

### MASHINOSTROITEL, Perm

Thrusters, Booster

### ISKRA, Perm

Solid Propellant

### AVANGARD, Sokolovo

Carrier

## REPUBLIC OF INDIA

### DRDO

System Integration  
Missile Integration  
IHM Testing

### INDIA RUS COMPOSITE CENTRE

Fibres & Composite Airframe  
Fibre Reinforcement  
Fibre Reinforced Structure

### COSEVA, ROYCE, Mumbai

Structural Analysis  
Structural Simulation  
Missile Performance Analysis

### MA, Hyderabad & Raipur

IB & IOD

### AVIATION ENGINEERING,

Hyderabad

Engine Test Stand

### GETRA, Wazirpur, Hyderabad

Engine Test Stand

### VALUETERMS, Chennai

2D, 3D Modelling

### DIEL, Coimbatore

Missile Guidance System

### ECIL, Hyderabad

Communication Equipment

Matrix Computed Rod

### BHEL, Bangalore

TATRA Vehicle

## Public-Private Industry Partnership

## ...Multi facet consortium

## JULY 2009

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
|     |     | 1   | 2   | 3   | 4   | 5   |
| 6   | 7   | 8   | 9   | 10  | 11  | 12  |
| 13  | 14  | 15  | 16  | 17  | 18  | 19  |
| 20  | 21  | 22  | 23  | 24  | 25  | 26  |
| 27  | 28  | 29  | 30  | 31  |     |     |

## AUGUST 2009

| MON | TUE   | WED | THU | FRI | SAT | SUN |
|-----|---|-----|-----|-----|-----|-----|
| 31  | 14th August — Janmashtami<br>15th August — Independence Day |     |     |     | 1   | 2   |
| 3   | 4   | 5   | 6   | 7   | 8   | 9   |
| 10  | 11  | 12  | 13  | 14  | 15  | 16  |
| 17  | 18  | 19  | 20  | 21  | 22  | 23  |
| 24  | 25  | 26  | 27  | 28  | 29  | 30  |

## JUNE 2009

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
| 1   | 2   | 3   | 4   | 5   | 6   | 7   |
| 8   | 9   | 10  | 11  | 12  | 13  | 14  |
| 15  | 16  | 17  | 18  | 19  | 20  | 21  |
| 22  | 23  | 24  | 25  | 26  | 27  | 28  |
| 29  | 30  |     |     |     |     |     |

## SEPTEMBER 2009

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
|     | 1   | 2   | 3   | 4   | 5   | 6   |
| 7   | 8   | 9   | 10  | 11  | 12  | 13  |
| 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| 21  | 22  | 23  | 24  | 25  | 26  | 27  |
| 28  | 29  | 30  |     |     |     |     |



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# Network Centric Operation

**No way to Escape...**  
...when every second counts

**Accept the challenges so that you may feel  
the exhilaration of victory.**

## SEPTEMBER 2009

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
|     | 1   | 2   | 3   | 4   | 5   | 6   |
| 7   | 8   | 9   | 10  | 11  | 12  | 13  |
| 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| 21  | 22  | 23  | 24  | 25  | 26  | 27  |
| 28  | 29  | 30  |     |     |     |     |

21st September — Lift Fly  
28th September — Dussehra

## OCTOBER 2009

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
|     |     |     | 1   | 2   | 3   | 4   |
| 5   | 6   | 7   | 8   | 9   | 10  | 11  |
| 12  | 13  | 14  | 15  | 16  | 17  | 18  |
| 19  | 20  | 21  | 22  | 23  | 24  | 25  |
| 26  | 27  | 28  | 29  | 30  | 31  |     |

2nd October — Mahatma Gandhi's Birthday  
17th October — Diwali

## AUGUST 2009

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
| 31  |     |     | 1   | 2   |     |     |
| 3   | 4   | 5   | 6   | 7   | 8   | 9   |
| 10  | 11  | 12  | 13  | 14  | 15  | 16  |
| 17  | 18  | 19  | 20  | 21  | 22  | 23  |
| 24  | 25  | 26  | 27  | 28  | 29  | 30  |

## NOVEMBER 2009

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
| 30  |     |     |     |     |     | 1   |
| 2   | 3   | 4   | 5   | 6   | 7   | 8   |
| 9   | 10  | 11  | 12  | 13  | 14  | 15  |
| 16  | 17  | 18  | 19  | 20  | 21  | 22  |
| 23  | 24  | 25  | 26  | 27  | 28  | 29  |



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**VENTURING INTO THE  
HYPERSONIC WORLD**  
...where Speed is the POWER!

**There is nothing like a dream to create the future.**

Labels in image: SHAR, Main mirror, Secondary, Quarters, Antenna, Hypersonic re-usable Cruise Missile, MORPHING AIRFRAME, 3rd GEN. REUSABLE LAUNCH VEHICLES, MINING IN PLANETS

**NOVEMBER 2009**

| MON | TUE  | WED | THU | FRI | SAT | SUN |
|-----|--|-----|-----|-----|-----|-----|
| 30  | 2nd November — Garu Narak's Birthday<br>28th November — Sha' Zuhra (Bakid) |     |     |     |     | 1   |
| 2   | 3  | 4   | 5   | 6   | 7   | 8   |
| 9   | 10   | 11  | 12  | 13  | 14  | 15  |
| 16  | 17   | 18  | 19  | 20  | 21  | 22  |
| 23  | 24   | 25  | 26  | 27  | 28  | 29  |

**DECEMBER 2009**

| MON | TUE | WED | THU | FRI   | SAT | SUN |
|-----|-----|-----|-----|---|-----|-----|
|     | 1   | 2   | 3   | 4   | 5   | 6   |
| 7   | 8   | 9   | 10  | 11  | 12  | 13  |
| 14  | 15  | 16  | 17  | 18  | 19  | 20  |
| 21  | 22  | 23  | 24  | 25  | 26  | 27  |
| 28  | 29  | 30  | 31  | 25th December — Christmas Day<br>28th December — Muharram |     |     |

**OCTOBER 2009**

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
|     | 1   | 2   | 3   | 4   |     |     |
| 5   | 6   | 7   | 8   | 9   | 10  | 11  |
| 12  | 13  | 14  | 15  | 16  | 17  | 18  |
| 19  | 20  | 21  | 22  | 23  | 24  | 25  |
| 26  | 27  | 28  | 29  | 30  | 31  |     |

**JANUARY 2010**

| MON | TUE | WED | THU | FRI | SAT | SUN |
|-----|-----|-----|-----|-----|-----|-----|
|     |     | 1   | 2   | 3   |     |     |
| 4   | 5   | 6   | 7   | 8   | 9   | 10  |
| 11  | 12  | 13  | 14  | 15  | 16  | 17  |
| 18  | 19  | 20  | 21  | 22  | 23  | 24  |
| 25  | 26  | 27  | 28  | 29  | 30  | 31  |



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