



# राष्ट्रीय पादप जीनोम अनुसंधान संस्थान

(जैव प्रौद्योगिकी विभाग, विज्ञान एवं प्रौद्योगिकी मंत्रालय, भारत सरकार का स्वायत्त अनुसंधान संस्थान)

## NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(An Autonomous Institution of the Department of Biotechnology, Ministry of Science and Technology, Government of India)

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Aruna Asaf Ali Marg, Post Box Number 10531, New Delhi-110067

October 08, 2013

NIPGR/NIQ/RC/13-14

M/S as per list attached

Sub: Invitation of sealed Quotation

Sir,

Sealed quotations are invited for supply & installation of **01 no. of Refrigerated Centrifuge** for our institute as per the following specifications in two bid system.

1. Compact floor mounted (NOT table top) with wheel having a foot print of less than (W X D) 60 cm X 70 cm.
2. The centrifuge should be microprocessor controlled, one touch key operation, dual colour LED display with jog dial operation.
3. The centrifuge should have maximum speed of 15,000 rpm or more and maximum rcf (g) of 21,000 g or more.
4. Operating temperature range should be between (-5 to -10)°C and (+35 to +40)°C with CFC-free refrigeration system having stand by cooling facility.
5. Feature to change the parameters during running conditions is preferred.
6. It should be able to accommodate multiple rotors from a choice of 0.2ml, 0.5ml, 1.5ml, 8-well PCR strips, 5ml, 15ml, 30ml, 50ml, 250ml, 96-well plates among others.
7. Feature to run minimum of 36 microcentrifuge tubes (1.5ml/2ml) at the same time with 15,000 rpm and 20,000Xg (preferably with option to spin 0.2, 0.4 & 0.5 mL); micro-titre plate/96-well PCR plate at 4500 rpm or more (rotor capacity with higher than 4500 rpm is preferred); 4-6 x 50ml tubes rotor with 20,000Xg or more and 4 X 250 ml rotor with minimum of 4700 rpm and 4100 Xg or more
8. There should be option for time pre selection as flash spin, 0-99 minutes or more and continuous run.
9. The system should have energy-saving technology for reduced power consumption during idle state (not more than 70 Watts/hour).
10. Maintenance free and noiseless (<65 dBA at max. speed) direct drive brushless induction motor with an automatic alignment.
11. Memory function storing atleast two sets of operating parameters.
12. Soft start and soft stop function.
13. The centrifuge should have features like: rotor identification system, Imbalance detector, lid interlock, over speed detector, over current circuit breaker, abnormally high/low chamber temperature sensor detector, motor over-current detector, end of run alarm and emergency lid opening on power failure.
14. Rotors to be offered which can be changed without using any tools.
15. Established and reputed manufacturer with more than 10 years in this product.
16. Atleast 2 years of unconditional, comprehensive warranty on site.
17. An ISO certification must be provided by the manufacturer.
18. A compatible voltage stabilizer to be included.

### Rotors & Accessories Required

- 4-6 x 250 ml tube with 4700 rpm & 4100 Xg or more (rotor that handle higher than 4700 rpm preferred)-- 1
- 4-6 x 50ml tubes with 13000 rpm & 20,000Xg or more-- 1
- 36 or more X 2ml tube with 15000 rpm & 20,000xg or more -1
- 96 well PCR Plate rotor with 4500 rpm/3150 g 14000 rpm or more-- 1
- 5 KVA Servo stabilizer with high / low cut off with time delay relay-- 1
- Mini spin centrifuge with 6000rpm for sample pre-mixing - 1

### Optional rotors

- 15mlx32 with 3500 rpm
- 10mlx16 with 3500rpm
- 175mlx4 with 4700 rpm
- 5mlx12 with 15000rpm & 20000xg
- 15mlx8 with 15000rpm & 20000xg

You are therefore requested to please send your comparative offer indicating the maximum discount offered, along with a copy of Catalogue/Proprietary certificate. The Technical bid must accompany a Demand Draft amounting to Rs. 19000.00 (Rupees Nineteen Thousand Only), being the EMD in the name of Director, NIPGR, New Delhi and must be send in a **Sealed Envelope** duly super-scribed on top of envelope as "Quotation for Refrigerated Centrifuge" so as to reach to the undersigned latest by **28/10/13 (3.00 PM)**, the same shall be opened on **29/10/13 at 3.30 PM**.

Thanking you,

क्रय एवं भंडार अधिकारी