

MARINE BIOLOGICAL RESEARCH STATION
(DR. B.S. KOKAN KRISHI VIDYAPEETH, DAPOLI),
PETHKILLA RATNAGIRI- 415612

Tel No. (02352) 232995

Fax : (02352) 232995

TENDER NOTICE

No. MBRS/KOVIKAKA/Tender/ 48/of 2010

Date: 12.01.2010

Sealed tenders in the prescribed form for purchase of scientific equipments / instruments / consumables are invited from the Manufactures / Authorized Dealers / Authorized Resellers, etc. **on or before 05.02.2010.**

The details of terms and conditions, specifications of scientific equipments / instrument / consumables to be purchased and copy of tender form can also be downloaded from the University website www.dbskkv.org

Sd/-
Senior Scientific Officer
Marine Biological Research Station,
Pethkilla, Ratnagiri

No.

MARINE BIOLOGICAL RESEARCH STATION

(DR. B.S. KOKAN KRISHI VIDYAPEETH, DAPOLI)

PETHKILLA, RATNAGIRI – 415 612

TENDER FORM

for the purchase of

**Scientific Equipments / Instruments/
Consumables**

**SENIOR SCIENTIFIC OFFICER
MARINE BIOLOGICAL RESEARCH STATION,
PETHKILLA, RATNAGIRI-415612
(Maharashtra)**

Tel No. (02352) 232995

Fax : (02352) 232995

MARINE BIOLOGICAL RESEARCH STATION

(DR. B.S. KOKAN KRISHI VIDYAPEETH, DAPOLI)

PETHKILLA, RATNAGIRI

(Maharashtra)

Tender for Supply of scientific equipments / instruments/Consumables

FORM OF TENDER

To,

**THE SENIOR SCIENTIFIC OFFICER
MARINE BIOLOGICAL RESEARCH STATION
PETHKILLA, RATNAGIR- 415612**

Dear Sir,

1. In response to the tender notice published in the daily newspaper _____, dated _____, I/We submit herewith the tender form for supply of scientific equipments/ instruments/consumables.
2. I/We have thoroughly examined and understood the terms and conditions of the tender contained in Appendix –I and I/we agree to abide by them in full.
3. I/We offer to undertake the supply of scientific equipments/ instruments/consumables and quoted the rates inclusive of all taxes, freight, etc. F.O.R. Ratnagiri, Dist. Ratnagiri (M.S.) as given in Appendix-II. It is agreed that no additional charges other than those mentioned in word be payable to me/us.
4. I/We accept that the rates offered shall remain valid for a period of three months from the date of execution of agreement. I/We further agree that if the date upto which the offer would remain open be declared as holiday for office, then offer will remain open for acceptance till next working day.
5. I/We shall be bound by communication of acceptance of the offer, dispatched within prescribed time.
6. I/We accept that the right to accept or reject whole or part of the tender without assigning any reason is reserved with the University. The decision of the University will be final and shall be binding on me/us.
7. As required by the terms and conditions of tender an amount of Rs. _____ of Appendix – II, paid by me/us as Earnest Money Deposit (E.M.D.) through Demand Draft (D.D.) of Rs. _____ payable at Ratnagiri bearing No. _____ dated _____ in favour of Dr. B.S.Kokan Krishi Vidyapeeth, Ratnagiri.
8. I/We agree to undertake to supply the articles at location of office mentioned in final supply order and as per the specifications of the final orders within 15 days from the date of firm order.
9. As rates are valid upto three months, I/We also agree to undertake to supply of scientific equipments/ instruments/consumables full or in part to other offices of University, under same terms and conditions against the supply orders upto the period of three months from the date of execution of Agreement Bond.

10. As per the terms and conditions (Part-I), I/We are submitting our offer in two envelopes. In envelope No. A, it contains documents as per the condition Sr. No. 11 of part-I. In envelope No. B, it includes rates quoted by me/us in Part-II.
11. I/We also agree that University has full rights to open/consider the second envelope if and only if University satisfied with information contains in envelope No. A. The decision of the University regarding this will be final and will be binding on me/us.
12. I/We hereby declare that the entries made in this tender form, i.e. in Part-II are binding for me/us. I/We shall be bound by the Act to my/our authorized representative duly constituted Attorney Shri. _____ whose signature is appended hereto in the place specified for the purpose and of any other person who in future may be appointed by me/us in his place to carry on the business of this concern/agency/firm. The intimation of such change will be given to the Senior Scientific Officer, Marine Biological Research Station, Pethkilla, Ratnagiri. I/We hereby take the responsibility to installation of the scientific equipments/ instruments/consumables at their location free of cost in warranty period. I/We hereby take the responsibility to provide the service for at least one year after expiry of warranty periods.

The following documents duly filled in and signed, are enclosed alongwith the Part-I being the terms and conditions is retained by me/us for my/our information and record.

Yours faithfully,

Place : _____

Signature of the Supplier

Date : _____

Capacity in which signing : _____

Name and Address of the firms/supplier: _____

Registration No. of supplier : _____

List of Documents:-

- | | |
|-----|-----|
| i | iv |
| ii | vi |
| iii | vii |

- 1) Part-II of Appendix – I and Appendix –II.
- 2) Bank Draft No. _____, Dated _____, Rs. _____
- 3) Bank Draft No. _____, Dated _____, Rs. _____

Signature of constituted
Attorney / authorized representative

Signature : _____, Date _____

Name and Address : _____

MARINE BIOLOGICAL RESEARCH STION
(DR. B.S. KOKAN KRISHI VIDYAPEETH, DAPOLI),
PETHKILLA, RATNAGIRI- 415612
(Maharashtra)

APPENDIX – I
(Part I)

**Terms and conditions of Tender for supply of scientific equipments/
instruments/consumables**

1. Sealed Tenders are invited from manufactures/authorized Reseller/authorized dealers of manufactures / or authorized suppliers for supply of scientific equipments/ instruments/consumables as per the specifications mentioned in Appendix – II **during 1030 hours to 1500 hours on working days up to 05.02.2010**. Tenders received late will not be considered. In case tenders are sent by Registered post, it shall be the responsibility of intending suppliers to ensure that they are received before closing hours. The **tenders are proposed to be opened on 05.02.2010 at 1600 hours** in the presence of the intending supplier or their authorized representative who may desire to attend.
2. The rates both in words and figures without any corrections or overwriting should be quoted in Appendix – II for each individual item separately. Any over- or re-writing should be duly countersigned. The rates must be valid for a period of at least three months from the date of execution of Agreement.
3. The intending supplier shall also have to mention the name of manufacture / make, model of the article and has to enclose the pamphlets / picture of the equipments offered, for which the rates are quoted. In the absence of the above details of items offered may not be considered. The preference will be given to (a) Manufactures, (b) Authorized Reseller of overseas manufactures, (c) Authorized Dealers of manufactures (d) Authorized Suppliers. The preference will be given to the items bearing ISI/ISO 9000 quality control mark for the equipments.
4. University will accept the tender for items mentioned in Appendix – II from only (a) Manufactures, (b) Authorized Reseller or dealer of overseas manufactures, (c) authorized Dealers of manufactures. And (d) Any other authorized agency which is having adequate experience in supply and maintenance of equipments. Such agencies must enclose adequate documents to prove their claims. **University reserves the rights to accept or reject tenders of these agencies and also reserves the right to increase or decrease the number of units to be purchased as mentioned in Appendix – II**. The decision of the University regarding this will be final and shall be binding on tenderer.
5. University will not accept the assembled equipment's or any assembled items.
6. Tenderer will have to supply scientific equipments/ instruments/consumables manufactured by any one of the reputed company or group and not of local brand name or assembled equipment.
7. The University reserves the right to accept or reject the items of the make other than the above.
8. Tenderer may enclose published report of comparative study of his quoted items, which will give additional weightage to his quoted price.

9. The tenderer should quote the rates only in Appendix II of the tender floated on website by this office and not on any other form.
10. The tenderer should submit his offer in **two separate envelopes**.
11. The tenderer should provide the following documents in first envelop with superscription. “Tender for supply of scientific equipments/ instruments/consumables”:
 - a) D.D. for E.M.D. and cost of tender form Rs. 500/- (if tender form obtained through Website) separately.
 - b) Certificate of Authorized Manufactures/Authorized Reseller/Dealer of overseas companies/Authorized Dealers of manufactures/Authorized Service Centre.
 - c) Clients list of Company/Dealer and total experience in this field.
 - d) Income Tax clearance certificate of last three years statements of Income Tax Return signed by Income Tax authority or attested Xerox copy.
 - e) Sale Tax Registration No.
 - f) Part – II of Appendix – I.
12. The tenderer should provide rates quoted only in Appendix II in second envelope with superscription “TENDER FOR SUPPLY OF SCIENTIFIC EQUIPMENTS/ INSTRUMENTS/CONSUMABLES”
13. The intending supplier should quote the rates inclusive of all expenses, charges, taxes, duties, transaction, packing and forwarding, insurance etc. i.e. All “Inclusive” with free delivery at respective offices of the University as mentioned in Appendix – II. The material will have to be supplied as per the specification within 15 DAYS or as per the last date mentioned in final supply order.
14. University will reserve full rights to open/consider the second envelop if and only if University is satisfied with the information contained in envelope no. A. The decision of the University regarding this will be final and shall be binding on tenderer.
15. The supplier will have to supply in full or in part the articles as mentioned in Appendix – I to this University and any other office of University located anywhere in Konkan region till date of validity of rates.
16. If the ordered material is not provided within stipulate time limits, deduction @ 1% of the total cost order value per week for extra time taken will be done from the bill. However, the Senior Scientific Officer, Marine Biological Research Station, Pethilla, Ratnagiri, may condone/relax this penalty and may grant extension up to the time limit as deem fit by him, provided the tenderer applies and satisfies about genuineness of the reasons for delay in supply of articles.
17. The tenderer shall have to deposit Earnest Money Deposit (E.M.D.) of 1% of the cost of equipment by Demand Draft drawn in favour of Dr. B. S. Kokan Krishi Vidyapeeth, Ratnagiri, **pavable at Ratnagiri** and the same should be enclosed along with the tender. **The tender without E.M.D. will not be considered at all.** The amount of E.M.D. will be refunded in case of unsuccessful tenderer on submission of application with Money Receipt in original and an advance stamped receipt soon after the final decision. In case of successful tenderer, it will be deemed as partial payment towards 5% of Security Deposit.

However, in respect of State Agricultural Universities, Central Government undertakings, Sate Govt. undertakings, Central Govt. Institutes and Institutes affiliated by Indian Council of Agricultural Research the condition of depositing Earnest Money Deposit is not applicable.

18. The Specimen of “Agreement Bond” will be provided along with letter of acceptance to the tenderer whose rates are accepted by the University. The tenderer shall have to execute agreement in the prescribed form on stamp paper costing to Rs.100/-, which should be submitted to this Office within specified time. The agreement received under seal and signature of tenderer will become legal agreement between the tenderer and the University, which will be binding on tenderer.
19. If the successful tenderer fails to comply with the supply order within the specified period or only part supply is made, the Senior Scientific Officer, Marine Biological Research Station, Pethkilla, Ratnagiri, or respective authority or any officer authorized by him/them, will arrange for the alternative arrangement through any other supplier or agency at risk, cost and expenses of the said tenderer, who shall have to bear and pay all additional expenditure incurred by the University in that behalf.
20. Successful tenderer will have to furnish security deposit to the extent of 5% of total cost of the items accepted by the University as offered in tender either in cash or through demand draft on Ratnagiri District Central Co-operative Bank, Ratnagiri / State Bank of India Ratnagiri in favour of ‘Dr. B. S. Kokan Krishi Vidyapeeth, Ratnagiri’ within specified time from the date of issue of letter of acceptance.
21. The amount of Security deposit without any interest thereon will be returned to the tenderer after 12 months or the expiry of the warranty period whichever is later from the date of supply, subject to the surrender to Money Receipt in original in this office.
22. On acceptance of the rates as per the approved tender and after completing official necessary formalities, the tenderer will be informed about the acceptance of the tender. The supply order will placed by respective officer of Dr. B. S. Konkan Krishi Vidyapeeth, Dapoli. However, Security Deposit for order will have to be deposited with Senior Scientific Officer, Marine Biological Research Station, Pethkilla, Ratnagiri.
23. As soon as the tenderer delivers the tender in the office of the undersigned, it shall be binding on him and he shall not be able to withdraw or amend the offer.
24. The Senior Scientific Officer, Marine Biological Research Station, Pethilla, Ratnagiri also reserves the right to obtain the articles by negotiations from one or more of the tenderer, if in case the rates, quality, make, specifications or other terms and conditions etc. of tenderer are not found suitable, to this University.
25. The undersigned also reserves the right to accept or reject the suppliers in full or in part which do not strictly stick up to the specifications or to accept the materials / articles supplied with slight variations in specifications or with a condition that the rates accepted shall be reduced at such rates as the competent authority of the University may deem fit, looking to the variations and that such rates shall be binding on the tenderer.
26. University reserves the right to accept or reject – higher version of equipment/ instrument etc. or any other items under the same terms and conditions and same price quoted by tenderer in Appendix – II.
27. In case of successful tenderer, the University for fulfillment of terms and conditions of tender shall retain the amount of Security Deposit (S.D) deposited by him. The University will not make any payment towards interest on such deposits.
28. The credit bill should be presented in triplicate in the name of respective authority as quoted in final supply order is made. For any delay in payment, interest or any other kind of compensation, the University will not make extra payment, etc. This contract will be governed as per terms and conditions mentioned above, Agreement made and the provisions contained in M.A.U. account Code, 1991. Delay in supply within the prescribed time limit or

the extended time limit, making of supplies not upto the standard specification, and performance or non-observance or non-acceptance of these terms and conditions by the tenderer, shall constitute breach of contract and the security deposit or any other deposit of the tenderer shall be forfeited by the University besides other actions of reduction in bills of supplies and /or other legal actions and finally the decision of the University shall be binding on the tenderer.

29. The parties utilizing tender forms floated on University Website should submit D.D. amounting to Rs.500/- payable in favour of “Dr. B .S. Kokan Krishi Vidyapeeth, Ratnagiri” as tender form cost.
30. Income- tax @ 2.0% of the total amount payable on the tax invoice will be deducted. A certificate to this effect shall be issued in due course of time.
31. Bank commission charges, if any shall be borne by the tender party.

Enclosures : 1) Part – II of Appendix – I
2) Schedule of supplies in Appendix – II.

Place : Ratnagiri

Date :

Senior Scientific Officer
Marine Biological Research Station
Pethkilla, Ratnagiri

APPENDIX – I
(PART – II)

Undertaking to be given by the tenderer for supply of scientific equipments /instruments /consumables.

Whereas, Senior Scientific Officer, Marine Biological Research Station, Pethilla, Ratnagiri has called for tenders for supplies as per the enclosed Appendix – II.

I/We hereby offer our tender at the rates given in the enclosed Appendix – II, duly filled in and signed by me/us and hereby also affix my/our signature(s) below this tender voluntary and full acceptance of all the terms and conditions of this tender, which shall be the agreement between the above tender calling authority and myself/we.

Encl. : Appendix – II

Signature of the Supplier:

Name of the Supplier:

Capacity in which signing:

Full address of the Supplier:

With seal/stamp:

Place :

Dated :

APPENDIX – II

Sr. No.	Name of equipment	Nos. of unit	Technical specification	Cost per unit (Rs.)	Total cost (Rs.)
1.	Air blower (3 H.P.) 73CFM/4PSI	1	<p>Suply of Twin lobes blower, root type positive displacement. Oil free blower having 1440 rpm, 50 cy, 440 v, AC/TEFC (having IS quality mark) with accessories</p> <p>Casing : The casing of one-piece grey iron with integral cast suction and delivary flanges. The outer surface of the casing finned for faster dissipation of heat generated by compression of air inside the casing.</p> <p>Rotors: made of cast iron 25 of IS:210. The rotor profile is accurately finished and pressed in carbon steel shafts. The rotors dynamically balanced as per ISO 1940-1973 (E).</p> <p>Bearing: It is made of generous proportion. Grease lubricated cylindrical roller bearing/ball bearings are used at the drive end and splash lubricated spherical roller/ball bearings must be used on the opposite end.</p> <p>Timing gears: The gears made of alloy steel- 20 MNCR- 5 hardened (55-58 HRC) and ground, helical type to ensure high mechanical efficiency, low noise level and larger life.</p> <p>Shaft: Made of Alloy steel En-36, case carbonized and toughened to 29/33 HRC.</p> <p>Matric system: The design and manufacturing of compressors are carried out as per matric system.</p> <p>Including installation, demonstration and commissioning FOR at Ratnagiri</p>		
2.	Water pump	2 nos.	<p>i. Kirloskar make 0.5 hp 1 Ø 1” X 1”, 28 meter head with EN8 shaft and casting impeller</p> <p>FOR at Ratnagiri</p>		

		2 nos.	ii. Kirloskar make water pump 1 hp 1 Ø 2” X 1”, 16 mtr head model no. KDS 116 with EN8 shaft and casting impeller. FOR at Ratnagiri		
		2 nos.	iii. Kirloskar make water pump 1 hp 1 Ø 1”X 1” 28 meter head KDS 128- with EN8 shaft and casting impeller FOR at Ratnagiri		
		1 no.	iv. Kirloskar make water pump 1 hp 3 Ø 1”X 1” 16 meter head KDS 128 with s/s shaft and G/M impeller –. FOR at Ratnagiri		
		1 no.	v. Kirloskar make water pump 5 hp 3 Ø 3”X 2.5” 16 meter head KDS 527 with s/s shaft and G/M impeller-. With 300 feet Green pipe 3 inch diameter, Kisan/Kanaflex FOR at Ratnagiri		
3.	10 KVA Generator	1 no.	Kirloskar make DG set 10 KVA with sound proof caopy with installation, commissioning with Electric Inspector permission. AMF panel with installation, testing, commissioning etc. FOR at Ratnagiri		
4.	Thermal cyclcer	1 no.	BIORAD make:- Large high-resolution display Should have gradient facility. Ramping speed of approx. 2.5 degree Centigrade per second. Wide range of user-programmable preferences. Temperature accuracy and uniformity of ± 0.5 deg C. USB communication Alphanumeric as well as Graphical representation of protocols. Menu-driven software with ready-made templates for quick programming Heated lid with adjustable temperature control		

			<p>Self-adjusting lid accommodates standard 0.2 ml thin-wall PCR tubes, strips, and 96-well plates</p> <p>Programmable, power-saving auto standby option when instrument is idle</p> <p>Temperature monitoring and control through instrument algorithm and block measurement modes</p> <p>Printing and storage of detailed run and validation reports</p> <p style="padding-left: 40px;">NIST-traceable temperature performance</p> <p>Including installation, demonstration and commissioning FOR at Ratnagiri</p>		
5.	Horizontal electrophoresis system	1 no.	<p>BIORAD make:</p> <p>A horizontal electrophoresis system should be able to run the gel size of 7x10cm with safety lid.</p> <p>A system should include UV transparent gel tray of size 7x10 with integrated fluorescent ruler.</p> <p>A system should include tape free gel casting module for leak free operations.</p> <p>A system should include casting gates to allow hassle free casting of gels directly in the electrophoresis cells.</p> <p>A system should include two 1.0mm 8- & 15-well fixed height combs.</p> <p>A system should have the option for adjustable height combs with comb holders.</p> <p>Migration rate of Bromophenol Blue dye should be similar to 4.5cm/hr (at 75 V).</p> <p>A system should have a lock-in design to run precast ready agarose gels.</p> <p>System should be supplied with power supply having following features</p> <p>Out put specifications:</p> <p>Voltage 10-300V, Current 4-400mA, Power 75 W Maximum</p> <p>Type of output – constant current or constant voltage</p> <p>Pause resume function – Yes</p>		

			<p>Display 3 digit LED</p> <p>Safety Features : No load detection, sudden load change detection, over load / short circuit detection, over voltage protection.</p> <p>Number of Output Jacks – 4 sets in parallel</p> <p>Including installation demonstration, and commissioning FOR at Ratnagiri</p>		
6.	Revolutionary table top high speed cooling centrifuge	1 no.	<p>“Remi make : Model no. C-24BL</p> <p>Max. Speed 20000 rpm, Max. rcf 37570 g, Max. tube size 100 ml</p> <p>Max. Capacity : 400ml, Lowest temp. -8 deg.C, Connected load 1.6 KVA, With speed controller, digital speed meter, timer, without rotor heads & accessories</p> <p>ANGLE HEAD FOR ABOVE</p> <p>R-242 6x50 ml Angle head 50 ml poly. Tubes, R-244 12x15ml Angle head with 15 ml poly.tubes, R-247 8x50ml Angle head 50 ml with poly. tubes</p> <p>R-248 24x1.5ml Angle head with 1.5ml Eppendorf polypropylene tubes</p> <p>Supplied with :-</p> <p>a) Voltage Stabilizer :- Servo Voltage Stabilizer , Input 170 V to 260 V , Output 220 V to 240V Model : VS-03</p> <p>Including installation, demonstration and commissioning FOR at Ratnagiri</p>		
7.	MILIPORE Ultrapure Water Purification system : Direct Q3 with UV lamp	1 no.	<p>All in one pack which contains a combination of technologies to produce ultrapure water from Tap water directly</p> <p>Booster pump</p> <p>The 1st stage of the RO DI cartridge contains pretreatment followed by RO membrane</p> <p>The 2nd stage contains mixed be ion exchange resin and organic</p> <p>Final stage contains a 0.22micron PES membrane filter in stack disc configuration</p> <p>Point of use UF cartridge with LRV is between 5.6 and 7.65 over challenge range of 220 and 22000 Eu / mL .</p>		

			<p>Automatic recirculation when system is not in use</p> <p>Preset of fixed volume dispense</p> <p>Bright , color graphic display showing system parameters, operational functions and product water quality</p> <p>Compact design that can be bench top or wall mounted</p> <p>*Product resistivity cell to monitor the system performance continuously</p> <p>Tap for dispensing RO water from the tank</p> <p>In built tank for storing the RO grade water</p> <p>Including installation, demonstration and commissioning FOR at Ratnagiri</p>		
8.	Horizontal Cylindrical High Pressure Steam Sterilizer	1 no.	<p>NAT-STEEL make:</p> <p>The sterilizer chamber size 400 mm dia. X 1100 mm depth (16" X 44") suitable for electrical operation, on 400/440 volts, 3 phase, AC supply, electric load 9 KW.</p> <p>The sterilizer will be manufactured as per IS:No.3829(Part I)-1978 and it will also bear the Bureau of Indian Standard Certification Mark. Operating pressure: 16 to 18 psi. corresponding to a temp. of 121⁰ C.</p> <p>The chamber, the end ring and the back plate would be formed out of SS 316. The jacket and jacket outer cover will be of SS 304. The sterilizer will be provided with one pressure locking type safety door. The door plate will be formed out SS 316 and shooting bolts, steam generator and flush mounting and stand will be of SS 304.</p> <p>The sterilizer will also be provided with an intelligent transducer for heater protection.</p> <p>Packing, forwarding, freight, insurance and supervision including installation, demonstration and commissioning FOR at Ratnagiri</p>		
9.	All Quarts Double Distillation Unit, Demountable Boiler Panel Series, Vertical	1 no.	<p>Borosil make,</p> <p>Cat No. 3365 2.5 L, Dist. water output cap. (Approx) 2.5 lit/hr, Electrical Requirements 230-250 volts single phase 4.4 KW, Cooling water consumption 100 l/hr, Biological Activity Pyrogen free, pH 6.9-7.</p> <p>Electronic Relay Unit (Distillation Apparatus Power Supply) Borosil 3366/11</p> <p>Including installation, demonstration and commissioning, FOR at Ratnagiri</p>		

	Model and Electronic Relay Unit				
10.	High blow Air pump	2 no.	High blow air pump, 120 points, Techno Takasuki (Made in Japan) Including packaging, forwarding, installation, demonstration and commissioning FOR at Ratnagiri		
11.	Submersible aerator	2 no.	Force 7, AQUA & Co. make complete set of submersible aerator with PFC floats 1.5 HP motor (3 phase / 1.6 kw) and 50 M cable Including installation, demonstration and commissioning FOR at Ratnagiri		
12.	Water storage tank	1 no. each	i. Capacity: 5000 l (77 inch diameter and 83 inch height) ii. Capacity: 2000 l (51 inch diameter and 65 inch height) iii. Capacity: 5000 l (42 inch diameter and 50 inch height) FOR at Ratnagiri		
13.	“Mettler Toledo” Single pan Analytical Balance	1 no.	Classic plus – Fully Automatic Adjusted with an internal weight 0.01 mg Accuracy, Capacity : 61/220 Gms. Model: AB 265 – S Including installation, demonstration and commissioning and FOR at Ratnagiri		
14.	Plastic pools	1 no. each	i. 3 ft diameter x 2 ft height, ii. 3 ft diameter x 3 ft height iii. 4 ft diameter x 2 ft height, iv. 4 ft diameter x 3 ft height v. 6 ft diameter x 2 ft height, vi. 6 ft diameter x 3 ft height vii. 6 ft diameter x 4 ft height viii. 8 ft diameter x 2 ft height ix. 8 ft diameter x 3 ft height x. 8 ft diameter x 4 ft height xi. 10 ft diameter x 2 ft height, xii. 10 ft diameter x 3 ft height xiii. 10 ft diameter x 4 ft height, xiv. 12 ft diameter x 3 ft height,		

			<p>xv. 12 ft diameter x 4 ft height, xvi. 16 ft diameter x 2 ft height, xvii. 16 ft diameter x 3 ft height, xviii. 16 ft diameter x 4 ft height, xix. 20 ft diameter x 3 ft height, xx. 20 ft diameter x 4 ft height, xxi. 24 ft diameter x 3 ft height, xxii. 24 ft diameter x 4 ft height,</p>		
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