

## Bid invitation

### Information

Description:ZMN/1060021224/GRUNDFOS  
PUMPSETS/24  
Bid invitation number:6300038800

### Bid invitation rules

Bid invitation currency: INR  
**Timezone:** UTC+53  
**Submission period:** 10.05.2024 14:00:00  
**Opening date:** 10.05.2024 14:30:00  
**Created On:** 19.04.2024 04:40:37

### Bid invitation text:

SUPPLY OF GRUNDFOS PUMPSETS FOR FMS,MAG AND CNC MACHINES

#### TENDER TERMS AND CONDITIONS:

1. TERMS OF PAYMENT IS 100% PAYMENT AS PER MSME ACT FOR MSES AND FOR OTHERS ON 60TH DAY FROM THE DATE OF RECEIPT OF MATERIAL AT BEML STORES SUBJECT TO INSPECTION AND ACCEPTANCE OF MATERIALS. FOR BIDDERS NOT AGREEING WITH THE ABOVE TERMS, THEIR QUOTATIONS WILL BE SUITABLY LOADED WITH APPLICABLE CASH CREDIT INTEREST WHILE EVALUATION OF BIDS. IN CASE OF EARLY SUPPLIES, PAYMENT WILL BE MADE ONLY AS PER THE DELIVERY SCHEDULE INDICATED IN THE PURCHASE ORDER AND IN LINE WITH THE TERMS OF PAYMENT.  
IF FIRM/FIRMS ARE QUOTING PAYMENT TERMS AS ADVANCE/PROFORMA INVOICE, FIRM HAS TO AGREE TO PROVIDE BANK GUARANTEE FROM A SCHEDULED COMMERCIAL BANK FOR 110% OF THEIR INVOICE VALUE; ONLY THEN ADVANCE PAYMENT WILL BE MADE. IF FIRM DOES NOT AGREE FOR THE SAME AND ONLY QUOTES FOR ADVANCE/PROFORMA INVOICE, SUCH BIDS ARE LIABLE FOR REJECTION AND THEIR OFFER WILL NOT BE CONSIDERED AND NEXT LOWEST TECHNICALLY ACCEPTABLE OFFER WILL BE CONSIDERED. THE BG SHOULD BE VALID FOR A PERIOD TILL THE MATERIAL IS RECEIVED AND ACCEPTED BY BEML.
2. PRICES: PRICES ARE FIRM TILL THE EXECUTION OF THE ORDER.
3. BEML RESERVES THE RIGHT TO INCREASE OR DECREASE THE ORDER QUANTITY WHILE PLACEMENT OF THE P.O.
4. SCHEDULES INDICATED IN THE RFQ / BID ARE TENTATIVE & SUPPLIES SHOULD BE MADE AS PER OUR P.O. SCHEDULES ONLY. CHANGES IF ANY WILL BE INTIMATED LATER.
5. BEML RESERVES THE RIGHTS TO SPLIT THE ORDER QUANTITY ON L1 & L2 WITH DIVISION OF PATRONAGE 60:40, IF L2 AGREES L1 RATE.

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6. DELIVERY TERMS: DELIVERY AS PER BEML SCHEDULE. LEAD TIME REQUIRED FOR SUPPLY OF MATERIALS/CARRYING OUT THE ACTIVITY TO BE INDICATED IN THE BID.
7. DESPATCH TERMS: F.O.R. BEML MYSORE
8. VALIDITY: 90 DAYS FROM THE DATE OF OPENING OF THE BID.
9. RISK PURCHASE CLAUSE: BEML RISK PURCHASE CLAUSE WILL BE APPLICABLE.
10. LD CLAUSE: SCHEDULES SHOULD BE FOLLOWED STRICTLY, DELIVERY SCHEDULE IS TO BE MAINTAINED/FOLLOWED AS MENTIONED IN THE PURCHASE ORDER, ELSE PO WILL BE SHORT CLOSED. BEML LD CLAUSE WILL BE STRICTLY APPLICABLE IN CASE OF DELAY IN DELIVERY.
11. TAXES: FIRM HAS TO MENTION 8-DIGIT HSN CODE/6-DIGIT SAC CODE AND APPLICABLE GST RATES FOR THE MATERIAL/SERVICE.
12. THE TENDERS SHOULD CONFIRM TO BEML SPECIFICATIONS, MAKE AND CONDITIONS IN EVERY DETAIL AND ANY TENDER NOT CONFORMING TO BEML SPECIFICATIONS AND CONDITIONS WILL BE SUMMARILY REJECTED. PLEASE CLICK ON THE 'MATERIAL PO TEXT FROM R/3' UNDER 'NOTES AND ATTACHMENTS' FOR THE RESPECTIVE ITEMS TO GET THE TECHNICAL SPECIFICATION DETAILS.
13. ANY AMENDMENT/CORRIGENDUM TO THIS TENDER WILL BE PUBLISHED ONLY IN BEML WEBSITE AND NOT IN CPP PORTAL. VENDORS TO NOTE THIS.
14. DRAWING/ATTACHMENT IF ANY ARE ATTACHED IN THE NOTES AND ATTACHMENTS SECTION.
15. VENDORS TO ATTACH ANY DETAILS/ATTACHMENTS RELATED TO THE TENDER IN THE NOTES AND ATTACHMENT SECTION.
16. PAYMENT WILL BE MADE THROUGH E-PAYMENT. HENCE, PLEASE FURNISH YOUR BANK DETAILS ALONG WITH THE QUOTATION FOR MAKING PAYMENTS IF ORDER IS PLACED ON YOU.
17. P&F CHARGES AND FREIGHT CHARGES (IF ANY), SHOULD BE CLEARLY SPECIFIED.
18. BLOCKED OR BLACK LISTED SUPPLIERS NEED NOT OFFER THEIR QUOTATIONS FOR PARTICULAR CATEGORY OR PART.
19. IF THE BIDDER IS SUBMITTING FOR THE FIRST TIME WITH COMPETITIVE PRICE, WE MAY CONSIDER FOR DEVELOPMENTAL ORDER ONLY. HOWEVER, THE ORDERING IS LEFT TO THE DISCRETION OF BEML.
20. IN CASE OF NEW SUPPLIER BEING L-1, DEVELOPMENTAL ORDER WILL BE PLACED CONSIDERING THE TECHNICAL FEASIBILITY OF THE FIRM.
21. ANY EXCESS SUPPLIES MADE OVER AND ABOVE THE P.O. QUANTITY POST ORDER PLACEMENT, BEML WILL NOT BE RESPONSIBLE FOR ACCOUNTING & PAYMENT AGAINST THE EXCESS SHIPMENTS.
22. FIRMS WHO HAVE NOT MET BEML PO DELIVERY SCHEDULES REPETITIVELY WILL NOT BE CONSIDERED FOR PLACING NEW ORDERS.
23. THE AUTHORISED DEALER CERTIFICATE TO BE PROVIDED ON REQUEST BY BEML.

NOTE: ALL OTHER TERMS AND CONDITIONS WILL REMAIN AS PER THE GENERAL TERMS AND CONDITIONS DOCUMENT ATTACHED IN THE NOTES AND ATTACHMENTS SECTION.

Any item specific remarks / comments can be mentioned in "Bidders Remarks" column under Item Data.

Please contact our SRM Team for guidance on submission of bids in SRM system.

Phone number: (080) 22963269 / 22963141

E-mail ID: admin.srm@beml.co.in

Please contact Maintenance Department, Mysore Complex for any Technical clarifications.

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Description:ZMN/1060021224/GRUNDFOS PUMPSETS/24  
 Bid invitation number:6300038800

Phone number: (0821) 2400240 / 2400298  
 E-mail ID: govindaraju.cv@bemltd.in/zsm@beml.co.in

Please contact Materials Department, Mysore Complex for any Commercial clarifications.

Phone number: (0821) 2400277  
 E-mail ID: jayadevan.m@bemltd.in/zmnc@beml.co.in

Attachments:

GENERAL TERMS&CONDITIONS

Digital Signature

Bid invitation details

Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
1	000800608036	GRUNDFOS SCREW SPINDLE PUMPSET MTS 20-30		31.07.2024 00:00:00	1 NO

**Material Specification Text:**

Pumpset Capacity: 2.1 Cub.M/hour at 300M head, Make: GRUNDFOS ProductNo. MTS 20-30 R46 DQ-T Pump with Motor Complete set.Screw spindle pump designed for pumping of cooling lubricants andcutting oils water/oil emulsion min. 3% for machine tool applications.The pump is designed to be mounted on top of tanks with pump immersed inthe pumped liquid. Immersion depth: 230 mmThe motor is a 3-phase ACmotor.Liquid:Pumped liquid: EmulsionMaximum liquid temperature: 80 °CSelected liquid temperature: 20 °CDensity: 998.2 kg/m³Technical:Pump speed on which pump data are based: 2900 rpmActual calculated flow: 2.126 m³/hRated flow: 2.076 m³/hResulting head of the pump: 300 mPrimary shaft seal: DQApprovals: CE,EAC,UKCA,RCM,MoroccoApprovals for motor: CE,EAC,UKCA,SEPRO,RCMMoroccoEnergy approvals for motor: CE,CC,SingaporeAust./N.Z.Installation:Maximum ambient temperature: 60 °CMaximum operating pressure: 30 barPump inlet: G1 1/4"Pump outlet: G 3/4" / SAE 1"Immersion depth: 230 mmFlange size for motor: FF215Electrical data:Motor type: 100LCRated power - P2: 3 kWPower (P2) required by pump: 2.4 kWMains frequency: 50 HzRated voltage: 3 x 380-415D VRated current: 6.3 AStarting current: 840-920 %Cos phi - power factor: 0.87-0.82Rated speed: 2900-2920 rpmIE Efficiency class: IE3Motor efficiency at full load: 87.1-87.1 %Motor efficiency at 3/4 load: 88.0-87.0 %Motor efficiency at 1/2 load: 87.7-85.4 %Number of poles: 2Enclosure class (IEC 34-5): 55 Dust/JettingInsulation class (IEC 85): FMotor No: 87272297Others:Net weight: 44.1 kgEnvironmental approvals: WEEE

CGST - Central GST	%	_____
Basic Price	INR	_____
Discount on Basic	%	_____
IGST -Integrated GST	%	_____
SGST - State GST	%	_____

2	000800608037	GRUNDFOS CENTRF		31.07.2024 00:00:00	1 NO
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# Bid invitation

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Description:ZMN/1060021224/GRUNDFOS  
 PUMPSETS/24  
 Bid invitation number:6300038800

Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
		PUMPSET CM 3-2 A-R-A-V-			

**Material Specification Text:**

Pumpset Capacity: 3 Cub.M/hour at 14 M head, Make : GRUNDFOS Productcode : CM 3-2 A-R-A-V-AVBV F-A-A-N Pump with motor complete set.Compact, reliable, horizontal, multistage, end-suction centrifugal pumpwith axial suction port and radial dischargeport. The shaft, impellers and chambers are made of stainless steel. Theinlet and discharge parts are made of castiron. The mechanical shaft seal is a special designed, unbalanced O-ringseal. Pipework connection is via internalWhitworth pipe threads, Rp (ISO 7/1).The pump is fitted with a 3-phase, foot-mounted, fan-cooled asynchronousmotor.Technical dataControls:Frequency converter: NoneLiquid:Pumped liquid:WaterLiquid temperature range: -20 .. 90 °CSelected liquid temperature: 20 °CDensity: 998.2 kg/m³Technical:Pump speed on which pumpdata are based: 2900 rpmActual calculated flow: 3.001 m³/hRated flow: 3.1 m³/hResulting head of the pump: 14.01 mRated head: 13.55 mCode for shaft seal: AVBVApprovals: CE,EAC,UKCAApprovals for drinking water: ACS,NSF61Curve tolerance: ISO9906:2012 3BMaterials:Pump housing: Cast ironEN-GJL-200ASTM A48-25AImpeller: Stainless steelEN 1.4301AISI 304Installation:Range of ambient temperature: -20 .. 55 °CMaximum operating pressure: 10 barMax pressure at stated temp: 10 bar / 40 °C6 bar / 90 °CType of connection: RpSize of inletconnection: 1 inchSize of outlet connection: 1 inchOutlet position: 12Electrical data:Motor standard: IECFrame size: 71AIE efficiency class: IE2Rated power - P2: 0.46 kWMain frequency: 50 HzSuitable for 50/60 Hz: N2/10Rated voltage: 3 x 220-240D/380-415Y VService factor: 1.00Rated current: 2,0-2,2/1,0-1,2 AStarting current: 490-530 %Rated speed: 2770-2820 rpmEnclosure class (IEC 34-5): IP55Insulation class (IEC 85): FBuilt-in motor protection: NONECable included (Yes/No): NOthers:Terminal box position: 12Minimum efficiency index, MEI #: 0.7Net weight: 11 kgGross weight: 13.5 kg

CGST - Central GST	%	_____
Basic Price	INR	_____
Discount on Basic	%	_____
IGST -Integrated GST	%	_____
SGST - State GST	%	_____

3	000800608038	GRUNDFOS CENTRF PUMPSET MTR 10-7/3 A-W-	31.07.2024 00:00:00	1	NO
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**Material Specification Text:**

Pumpset Capacity : 10 Cub.M/hour at 22.5 Mtr. head, Make : GRUNDFOSProduct Code : MTR 10-7/3 A-W-A-HUUUV, Pump with motor complete set.Multistage, immersible, self-priming, centrifugal pump for verticalinstallation in tanks etc.The pump head and base are in cast iron # all other wetted parts are instainless steel.The pump has the following characteristics:# Dimensions according to DIN 5440.# Impellers, intermediate chambers and spline shaft are made ofStainless steel.# Mechanical shaft seal according to EN 12756.# Power transmission via sintered metal split coupling.A cartridge shaft seal ensures high reliability, safe handling, and easyaccess and service.The pump is fitted with a 3-phase, fan-cooled asynchronous motor.Immersion depth:



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 PUMPSETS/24  
 Bid invitation number:6300038800

Item	Product	Description	Vendor product number	Delivery date/ performance period	Quantity
	CGST - Central GST		%	_____	
	Basic Price		INR	_____	
	Discount on Basic		%	_____	
	IGST -Integrated GST		%	_____	
	SGST - State GST		%	_____	
5	000800608040	GRUNDFOS CENTRF PUMPSET CR 10-12 A-FJ-A-		31.07.2024 00:00:00	1 NO

**Material Specification Text:**

Pumpset Capacity: 10 Cub.M/hr at 100M head, Make: GRUNDFOS Product Code: CR 10-12 A-FJ-A-V-HQQV Pump with motor complete set.Vertical, multistage centrifugal pump with inlet and outlet ports onsame the level (inline). The pump head and baseare in cast iron # allother wetted parts are in stainless steel. Aacartridge shaft seal ensures high reliability, safehandling, and easy access and service. Power transmission is via a rigidsplit coupling. Pipe connection is viacombined DIN-JIS flanges.The pump is fitted with a 3-phase, fan-cooled asynchronous motor.Technical dataLiquid:Pumped liquid: WaterLiquid temperature range: -20 .. 90 °CSelected liquid temperature: 20 °CDensity: 998.2 kg/m³Technical:Pump speed on which pump data are based: 2917 rpmActual calculated flow: 10 m³/hResultinghead of the pump: 100.1 mPump orientation: VerticalShaft seal arrangement: SingleCode for shaft seal: HQQVApprovals: CE,EAC,UKCA,SEPROApprovals for drinking water: WRASCurve tolerance: ISO9906:2012 3BMaterials:Base: Cast ironEN 1561 EN-GJL-200ASTM A48-25BImpeller: Stainless steelEN 1.4301AISI 304Bearing: SICInstallation:Maximum ambient temperature: 60 °CMaximum operating pressure: 16 barMax pressure at stated temp: 16 bar / 90 °C16 bar / -20 °CType of connection: DIN / JISSize of inlet connection: DN 40Size of outlet connection: DN 40Pressure rating for connection: PN 25Flange rating inlet: 300 lbFlange size for motor: FT130Electrical data:Motor standard: IECMotor type: 112MCRated power - P2: 4 kWPower (P2) required by pump: 4 kWMains frequency: 50 HzRated voltage: 3 x 380-415D VRated current: 7.9 AStarting current: 1000-1110 %Cos phi - power factor: 0.87-0.87Rated speed: 2920-2940 rpmIE Efficiency class: IE3Motor efficiency at full load: 88.1-88.1 %Motor efficiency at 3/4 load: 88.6-88.2 %Motor efficiency at 1/2 load: 85.2-88.1 %Number ofpoles: 2Enclosure class (IEC 34-5): 55 Dust/JettingInsulation class (IEC 85): FMotor No: 85U15413Controls:Frequency converter: NoneOthers:Terminal box position: 6Minimum efficiency index, MEI #: 0.70Net weight: 76 kgGross weight: 80 kgShipping volume: 0.13 m³

	CGST - Central GST		%	_____	
	Basic Price		INR	_____	
	Discount on Basic		%	_____	
	IGST -Integrated GST		%	_____	
	SGST - State GST		%	_____	
6	000800608041	GRUNDFOS CENTRF PUMPSET CR 15-17		31.07.2024 00:00:00	1 NO

# Bid invitation

Information  
 Description:ZMN/1060021224/GRUNDFOS  
 PUMPSETS/24  
 Bid invitation number:6300038800

Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
		A-F-A-V			

**Material Specification Text:**

Pumpset Capacity: 15 Cub.M/hr at 206M head, Make: GRUNDFOS Product Code: CR 15-17 A-F-A-V-HQQV Pump with motor complete set.Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron # all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via DIN flanges. The pump is fitted with a 3-phase, fan-cooled asynchronous motor. Technical data: Liquid: Pumped liquid: Water Liquid temperature range: -20 .. 90 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Technical: Pump speed on which pump data are based: 2923 rpm Actual calculated flow: 15.05 m³/h Resulting head of the pump: 207.3 m Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals: CE, EAC, UKCA, SEPRO Approvals for drinking water: WRAS Curve tolerance: ISO 9906:2012 3B Materials: Base: Cast iron EN 1561 EN-GJL-200 ASTM A48-25 B Impeller: Stainless steel EN 1.4301 AISI 304 Bearing: SIC Installation: Maximum ambient temperature: 60 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 90 °C 25 bar / -20 °C Type of connection: DIN Size of inlet connection: DN 50 Size of outlet connection: DN 50 Pressure rating for connection: PN 25 Flange size for motor: FF300 Electrical data: Motor standard: IEC Motor type: 160 MDR Rated power - P2: 15 kW Power (P2) required by pump: 15 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 D/660-690 Y V Rated current: 28,0-26,0/16,2-15,6 A Starting current: 660-780 % Cos phi - power factor: 0.89-0.87 Rated speed: 2930-2950 rpm IE Efficiency class: IE3 Motor efficiency at full load: 91.9-91.9 % Motor efficiency at 3/4 load: 92.4-92.7 % Motor efficiency at 1/2 load: 92.4-92.3 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 85U17526 Controls: Frequency converter: None Others: Terminal box position: 6 Minimum efficiency index, MEI #: 0.70 Net weight: 174 kg Gross weight: 205 kg Shipping volume: 0.619 m³

CGST - Central GST	%	_____
Basic Price	INR	_____
Discount on Basic	%	_____
IGST - Integrated GST	%	_____
SGST - State GST	%	_____

7	000800608042	GRUNDFOS CENTRF PUMPSET CM 15-1 A-R-A-V	31.07.2024 00:00:00	1 NO
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**Material Specification Text:**

Pumpset capacity : 17 Cub.M/hr at 14.5M head, make: GRUNDFOS Product Code : CM 15-1 A-R-A-V-AVBV F-A-A-N pump with motor complete set. Compact, reliable, horizontal, multistage, end-suction centrifugal pump with axial suction port and radial discharge port. The shaft, impellers and chambers are made of stainless steel. The inlet and discharge parts are made of cast iron. The mechanical shaft seal is a special designed, unbalanced O-ring seal. Pipework connection is via internal Whitworth pipe threads, Rp (ISO 7/1). The pump is fitted with a 3-phase, foot-mounted, fan-cooled asynchronous motor. Technical data Controls: Frequency

# Bid invitation

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 PUMPSETS/24  
 Bid invitation number:6300038800

Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
		converter: NoneLiquid:Pumped liquid: WaterLiquid temperature range: -20 .. 90 °CSelected liquid temperature: 20 °CDensity: 998.2 kg/m <sup>3</sup> Technical:Pump speed on which pump data are based: 2900 rpmActual calculated flow: 17.15 m <sup>3</sup> /hRated flow: 17 m <sup>3</sup> /hResulting head of the pump: 14.76 mRated head: 14.71 mCode for shaft seal: AVBVApprovals: CE,EAC,UKCAApprovals for drinking water: ACS,NSF61Curve tolerance: ISO9906:2012 3BMaterials:Pump housing: Cast ironEN-GJL-200ASTM A48-25AImpeller: Stainless steelEN 1.4301AISI 304Installation:Range of ambient temperature: -20 .. 55 °CMaximum operating pressure: 10 barMax pressure at stated temp: 10 bar / 40 °C6 bar / 90 °CType of connection: RpSize of inletconnection: 2 inchSize of outlet connection: 2 inchOutlet position: 12Electrical data:Motor standard: IECFrame size: 80CIE efficiency class: IE3Rated power - P2: 1.1 kWMains frequency: 50 HzSuitable for 50/60 Hz: NRated voltage: 3 x 220-240D/380-415Y VService factor: 1.00Rated current: 4,4-4,5/2,55-2,6 AStarting current: 720-780 %Rated speed: 2830-2860 rpmEnclosure class (IEC 34-5): IP55Insulation class (IEC 85): FBuilt-in motor protection: NONECable included (Yes/No): NOthers:Terminal box position: 12Minimum efficiency index, MEI #: 0.7Net weight: 22.5 kgGross weight: 25 kg			
		CGST - Central GST	%	_____	
		Basic Price	INR	_____	
		Discount on Basic	%	_____	
		IGST -Integrated GST	%	_____	
		SGST - State GST	%	_____	
8	000800608043	GRUNDFOS CENTRF PUMPSET CR 20-3 A-F-A-V-		31.07.2024 00:00:00	1 NO

**Material Specification Text:**

Pumpset capacity: 20 Cub.M/hr at 35.5M head, Make: GRUNDFOS Product Code: CR 20-3 A-F-A-V-HQQV pump with motor complete set.Vertical, multistage centrifugal pump with inlet and outlet ports onsame the level (inline). The pump head and baseare in cast iron # all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safehandling, and easy access and service.Power transmission is via a rigidsplit coupling. Pipe connection is via DINflanges.The pump is fitted with a 3-phase, fan-cooled asynchronous motor.Technical dataLiquid:Pumped liquid: WaterLiquid temperature range: -20 .. 90 °CSelected liquid temperature: 20 °CDensity: 998.2 kg/m<sup>3</sup>Technical:Pump speed on which pump data are based: 2917 rpmActual calculated flow: 20.1 m<sup>3</sup>/hResulting head of the pump: 35.85 mPump orientation: VerticalShaft seal arrangement: SingleCode for shaft seal: HQQVApprovals: CE,EAC,UKCA,SEPROApprovals for drinking water: WRASCurve tolerance: ISO9906:2012 3BMaterials:Base: Cast ironEN 1561 EN-GJL-200ASTM A48-25BImpeller: Stainless steelEN 1.4301AISI 304Bearing: SICInstallation:Maximum ambient temperature: 60 °CMaximum operating pressure: 16 barMax pressure at stated temp: 16 bar / 90 °C16 bar / -20 °CType of connection: DINSize of inlet connection: DN 50Size of outlet connection: DN 50Pressure rating for connection: PN 25Flange size for motor: FT130Electrical data:Motor standard: IECMotor type: 112MCRated power - P2: 4 kWPower (P2) required by pump: 4 kWMains frequency: 50 HzRated voltage: 3 x 380-415D VRated current: 7.9 AStarting current: 1000-1110%Cos phi - power factor: 0.87-0.87Rated speed: 2920-2940 rpmIE Efficiency class:



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 Bid invitation number: 6300038800

Item	Product Price Condition	Description	Vendor product number	Delivery date/ performance period	Quantity
		IE3 Motor efficiency at full load: 88.1-88.1 % Motor efficiency at 3/4 load: 88.6-88.2 % Motor efficiency at 1/2 load: 85.2-88.1 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 85U15413 Controls: Frequency converter: None Others: Terminal box position: 6 Minimum efficiency index, MEI #: 0.70 Net weight: 71 kg Gross weight: 93 kg Shipping volume: 0.234 m <sup>3</sup> /10			
		CGST - Central GST	%	_____	
		Basic Price	INR	_____	
		Discount on Basic	%	_____	
		IGST - Integrated GST	%	_____	
		SGST - State GST	%	_____	
9	000800608044	GRUNDFOS CENTRF PUMPSET CR 20-14 A-F-A-V		31.07.2024 00:00:00	1 NO

**Material Specification Text:**

Pumpset Capacity: 20 Cub.M/hr at 172M head, make: GRUNDFOS Product Code: CR 20-14 A-F-A-V-HQQV pump with motor complete set. Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron # all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via DIN flanges. The pump is fitted with a 3-phase, fan-cooled asynchronous motor. Technical data Liquid: Pumped liquid: Water Liquid temperature range: -20 .. 90 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m<sup>3</sup> Technical: Pump speed on which pump data are based: 2923 rpm Actual calculated flow: 20.07 m<sup>3</sup>/h Resulting head of the pump: 173.3 m Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQV Approvals: CE, EAC, UKCA, SEPRO Approvals for drinking water: WRAS Curve tolerance: ISO 9906:2012 3B Materials: Base: Cast iron EN 1561 EN-GJL-200 ASTM A48-25 Impeller: Stainless steel EN 1.4301 AISI 304 Bearing: SIC Installation: Maximum ambient temperature: 60 °C Maximum operating pressure: 25 bar Max pressure at stated temp: 25 bar / 90 °C 25 bar / -20 °C Type of connection: DIN Size of inlet connection: DN 50 Size of outlet connection: DN 50 Pressure rating for connection: PN 25 Flange size for motor: FF300 Electrical data: Motor standard: IEC Motor type: 160MD Rated power - P2: 15 kW Power (P2) required by pump: 15 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-415 D/660-690 Y V Rated current: 28,0-26,0/16,2-15,6 A Starting current: 660-780 % Cos phi - power factor: 0.89-0.87 Rated speed: 2930-2950 rpm IE Efficiency class: IE3 Motor efficiency at full load: 91.9-91.9 % Motor efficiency at 3/4 load: 92.4-92.7 % Motor efficiency at 1/2 load: 92.4-92.3 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F Motor No: 85U17526 Controls: Frequency converter: None Others: Terminal box position: 6 Minimum efficiency index, MEI #: 0.70 Net weight: 169 kg Gross weight: 200 kg Shipping volume: 0.619 m<sup>3</sup>

CGST - Central GST	%	_____
Basic Price	INR	_____
Discount on Basic	%	_____

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<b>Item</b>	<b>Product</b>	<b>Description</b>	<b>Vendor product</b>	<b>Delivery date/</b>	<b>Quantity</b>
	<b>Price Condition</b>		<b>number</b>	<b>performance period</b>	
	IGST -Integrated GST		%	_____	
	SGST - State GST		%	_____	