



HINDUSTAN AERONAUTICS LIMITED      FORMAT NO: 551039  
ENGINE DIVISION-KORAPUT

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### INVITATION TO TENDER

TITLE: sealing Ring

Sl No	MPR No	HSN Code (Tentative)	PART NO	ITEM DESCRIPTION	Qty	Unit
1	24IH-1030	8411	K-006-009-19-1-043	<p>Sealing Ring</p> <p><u>NOTE:</u></p> <p>As per TA No:(TA NO.1443) ::</p> <p>1.These parts are manufactured based on OEM component STANDARD/Drawing with type approved raw material. For identification, these parts are prefixed by K and suffixed by developers material code.</p> <p>2. Each batch of seals shall carry suppliers test report for a) dimensions b) physico-mechanical properties indicating date of manufacturing (curing), life validity, and rubber mixing date.</p> <p>3.10% dimensional checks and visual inspection are to be carried out at Koraput for acceptance.</p> <p>4. Each batch of seals shall carry one set of test slabs (10 no.s of dumbbell specimen, 2 no.s of hardness test specimen and 6 no.s of cylindrical buttons) for checking its properties as per respective type approval(TA-1443-SL.1-7,TA-859-SL.1-8,TA-531-SL.1-8 of appendix-A,TA-1704-PART-A-SL.1-6,8-11 and PART-B swelling test in fuel or oil or hydraulic oil,i.e depending upon end use).</p>	45	Nos.

2	24IH-1030	8411	K-008-012-25-2-043	<p>5. Additional 1.5 gram of sealing ring (per batch of maximum 300 no.) shall be supplied for swelling test as per above test schedule.</p> <p>6. The seals shall be properly identified during storage.</p> <p>7. The consignment shall be supplied in well pack condition ensuring during preservation period for minimum 3 years.</p> <p>Sealing Ring</p> <p><u>NOTE:</u></p> <p>As per TA No:(TA NO.1443) :: 1.These parts are manufactured based on OEM component STANDARD/Drawing with type approved raw material. For identification, these parts are prefixed by K and suffixed by developers material code.</p> <p>2. Each batch of seals shall carry suppliers test report for a) dimensions b) physico-mechanical properties indicating date of manufacturing (curing), life validity, and rubber mixing date.</p> <p>3.10% dimensional checks and visual inspection are to be carried out at Koraput for acceptance.</p> <p>4. Each batch of seals shall carry one set of test slabs (10 no.s of dumbbell specimen, 2 no.s of hardness test specimen and 6 no.s of cylindrical buttons) for checking its properties as per respective type approval(TA-1443-SL.1-7,TA-859-SL.1-8,TA-531-SL.1-8 of appendix-A,TA-1704-PART-A-SL.1-6,8-11 and PART-B swelling test in fuel or oil or hydraulic oil,i.e depending upon end use).</p> <p>5. Additional 1.5 gram of sealing ring (per batch of maximum 300 no.) shall be supplied for swelling test as per above test schedule.</p> <p>6. The seals shall be properly identified during storage.</p>	22	Nos.
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3	24IH-1030	8411	K-027-031-25-1-043	<p>7. The consignment shall be supplied in well pack condition ensuring during preservation period for minimum 3 years.</p> <p>Sealing Ring</p> <p><u>NOTE:</u></p> <p>As per TA No:(TA NO.1443) :: 1.These parts are manufactured based on OEM component STANDARD/Drawing with type approved raw material. For identification, these parts are prefixed by K and suffixed by developers material code.</p> <p>2. Each batch of seals shall carry suppliers test report for a) dimensions b) physico-mechanical properties indicating date of manufacturing (curing), life validity, and rubber mixing date.</p> <p>3.10% dimensional checks and visual inspection are to be carried out at Koraput for acceptance.</p> <p>4. Each batch of seals shall carry one set of test slabs (10 no.s of dumbbell specimen, 2 no.s of hardness test specimen and 6 no.s of cylindrical buttons) for checking its properties as per respective type approval(TA-1443-SL.1-7,TA-859-SL.1-8,TA-531-SL.1-8 of appendix-A,TA-1704-PART-A-SL.1-6,8-11 and PART-B swelling test in fuel or oil or hydraulic oil,i.e depending upon end use).</p> <p>5. Additional 1.5 gram of sealing ring (per batch of maximum 300 no.) shall be supplied for swelling test as per above test schedule.</p> <p>6. The seals shall be properly identified during storage.</p> <p>7. The consignment shall be supplied in well pack condition ensuring during preservation period for minimum 3 years.</p>	21	Nos.
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4	24IH-1030	8411	K-040-044-25-1-043	<p>Sealing Ring</p> <p><u>NOTE:</u></p> <p>As per TA No:(TA NO.1443) :: 1.These parts are manufactured based on OEM component STANDARD/Drawing with type approved raw material. For identification, these parts are prefixed by K and suffixed by developers material code.</p> <p>2. Each batch of seals shall carry suppliers test report for a) dimensions b) physico-mechanical properties indicating date of manufacturing (curing), life validity, and rubber mixing date.</p> <p>3.10% dimensional checks and visual inspection are to be carried out at Koraput for acceptance.</p> <p>4. Each batch of seals shall carry one set of test slabs (10 no.s of dumbbell specimen, 2 no.s of hardness test specimen and 6 no.s of cylindrical buttons) for checking its properties as per respective type approval(TA-1443-SL.1-7,TA-859-SL.1-8,TA-531-SL.1-8 of appendix-A,TA-1704-PART-A-SL.1-6,8-11 and PART-B swelling test in fuel or oil or hydraulic oil,i.e depending upon end use).</p> <p>5. Additional 1.5 gram of sealing ring (per batch of maximum 300 no.) shall be supplied for swelling test as per above test schedule.</p> <p>6. The seals shall be properly identified during storage.</p> <p>7. The consignment shall be supplied in well pack condition ensuring during preservation period for minimum 3 years.</p>	42	Nos.
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5	24IH-1030	8411	K-014-018-25-2-043	<p>Sealing Ring</p> <p><u>NOTE:</u></p> <p>As per TA No:(TA NO.1443) :: 1.These parts are manufactured based on OEM component STANDARD/Drawing with type approved raw material. For identification, these parts are prefixed by K and suffixed by developers material code.</p> <p>2. Each batch of seals shall carry suppliers test report for a) dimensions b) physico-mechanical properties indicating date of manufacturing (curing), life validity, and rubber mixing date.</p> <p>3.10% dimensional checks and visual inspection are to be carried out at Koraput for acceptance.</p> <p>4. Each batch of seals shall carry one set of test slabs (10 no.s of dumbbell specimen, 2 no.s of hardness test specimen and 6 no.s of cylindrical buttons) for checking its properties as per respective type approval(TA-1443-SL.1-7,TA-859-SL.1-8,TA-531-SL.1-8 of appendix-A,TA-1704-PART-A-SL.1-6,8-11 and PART-B swelling test in fuel or oil or hydraulic oil,i.e depending upon end use).</p> <p>5. Additional 1.5 gram of sealing rings(per batch of maximum 300 no.) shall be supplied for swelling test as per above test schedule.</p> <p>6. The seals shall be properly identified during storage.</p> <p>7. The consignment shall be supplied in well pack condition ensuring during preservation period for minimum 3 years.</p>	24	Nos.
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6	24IH-1030	8411	GP 21.016	<p>Bush</p> <p><u>NOTE:</u></p> <p>As per TA No:TA NO: 1443 :: I) These seals are manufactured based on OEM STANDARD with type approved raw material and for identification,it is prefixed by K. The vendor should have a valid type approval during supply of these items.</p> <p>2) Each batch of seals shall carry suppliers test report for a) dimensions b) physico-mechanical properties indicating date of manufacturing(curing), life validity and rubber mixing date and copy of type approval/ Provisional clearance.</p> <p>3) Items should have minimum shelf life of 03 years from the date of manufacturing and Items should be supplied to HAL, Koraput within 03 months from the date of manufacturing.</p> <p>4) 05% or 10 nos dimensional checks and visual inspection, whichever is more are to be carried out at Koraput for acceptance.The seals should be free from surface defects (like imperfections,porosity/voids,inclusions , flow marks etc.).</p> <p>5) Each batch of seals shall carry one set of test slabs (10 nos. of dumbell specimen, 2 nos. of hardness test specimen and 6 nos. of cylindrical buttons as per ASTM standards) for checking its properties as per TA-840:Point no:1-7,TA-1443: Pointno: 1-7 for bulk acceptance.</p> <p>6) Additional 1.5 gram of sealing rings(per batch of maximum 300 no.) shall be supplied for swelling test as per above TA.</p>	75	Nos.
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7	24IH-1030	8411	GP 21.436	<p>Bush</p> <p>NOTE:</p> <p>As per TA No:TA NO-1443 :: I) These seals are manufactured based on OEM STANDARD with type approved raw material and for identification,it is prefixed by K. The vendor should have a valid type approval during supply of these items.</p> <p>2) Each batch of seals shall carry suppliers test report for a) dimensions b) physico-mechanical properties indicating date of manufacturing(curing), life validity and rubber mixing date and copy of type approval/ Provisional clearance.</p> <p>3) Items should have minimum shelf life of 03 years from the date of manufacturing and Items should be supplied to HAL, Koraput within 03 months from the date of manufacturing.</p> <p>4) 05% or 10 nos dimensional checks and visual inspection, whichever is more are to be carried out at Koraput for acceptance.The seals should be free from surface defects (like imperfections,porosity/voids,inclusions , flow marks etc.).</p> <p>5) Each batch of seals shall carry one set of test slabs (10 nos. of dumbbell specimen, 2 nos. of hardness test specimen and 6 nos. of cylindrical buttons as per ASTM standards) for checking its properties as per TA-840:Point no:1-7,TA-1443: Pointno: 1-7 for bulk acceptance.</p> <p>6) Additional 1.5 gram of sealing ring(per batch of maximum 300 no.) shall be supplied for swelling test as per above TA.</p>	53	Nos.
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8	24IH-1030	8411	382650006000	<p>Gasket</p> <p>NOTE:</p> <p>As per TA No:TY 38-005-1136-73,TY 38-005-1136-73 :: l)These seals are manufactured based on OEM STANDARD with type approved/provisionally cleared raw material and for identification,it is prefixed by K. The vendor should have a valid type approval/provisional clearance during supply of these items.</p> <p>2)Each batch of seals shall carry suppliers test report for a) dimensions b) physico-mechanical properties indicating date of manufacturing(curing), life validity and rubber mixing date and copy of type approval/provisional clearance. Items should have minimum shelf life of 03 years from the date of manufacturing and Items should be supplied to HAL, Koraput within 03 months from the date of manufacturing.</p> <p>3)05% or 10 nos dimensional checks, whichever is more and 100% visual inspection are to be carried out at Koraput for acceptance.The seals should be free from surface defects (like imperfections,porosity/voids,inclusions , flow marks etc.).</p> <p>4)Each batch of seals shall carry one set of test slabs (10 no.s of dumbbell specimen, 2 no.s of hardness test specimen and 6 no.s of cylindrical buttons as per ASTM standards) for checking its properties as per TA-1443:Point 1-7;TA-1231:Point 1-8;TA-859:Point 1-8 of Appendix-A and TA-840:point 1-7 of appendix-A ).</p> <p>5) Additional 1.5 gram of sealing rings(per batch of maximum 300 no.) shall be supplied for swelling test as per above TA/PC.</p>	19	Nos.
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