

**Call for market consultation No. 53446 with the following subject matter: Manufacturing and supply of tooth sleeves**

Kozloduy NPP EAD informs all interested parties that in connection with the preparation for the award of a public contract and determination of the estimated value pursuant to Article 44 of the PPA is collecting indicative offers for Manufacturing and supply of sleeves.

The proposal should include:

- detailed description of the proposed goods, as specified in the technical specification attached below;
- unit price and total value, VAT excluded;
- information about timeline and terms of delivery, warranty period;
- shipping documentation upon delivery;
- exact address and contact person, telephone number, fax, e-mail, website.

Inquiries about market consultations may be made by 27 March 2024 at the following e-mail address: [commercial@npp.bg](mailto:commercial@npp.bg) as the clarifications will be published in the profile of the Buyer.

Deadline for submission of indicative offer: 29 March 2024 at the following e-mail: [commercial@npp.bg](mailto:commercial@npp.bg)

All information exchanged on the occasion of the market consultations will be published in the Buyer's profile.

By submitting an indicative offer, each participant in the market consultations agrees that the offer and any additional information provided as a result of the market consultations will be made available to the public in the Buyer's profile.

The Contracting Authority will be entitled to use the indicative offers received during the conduct of the market consultations for the award of public contracts up to the value thresholds as specified in Article 20, paragraph 4 of the Public Procurement Act.

Further information may be obtained from Tihomir Angelov, Marketing Expert, tel. +359 973 7 40 14, e-mail: [tangelov@npp.bg](mailto:tangelov@npp.bg)

Enclosures:

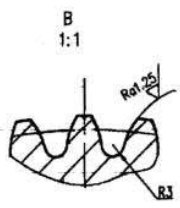
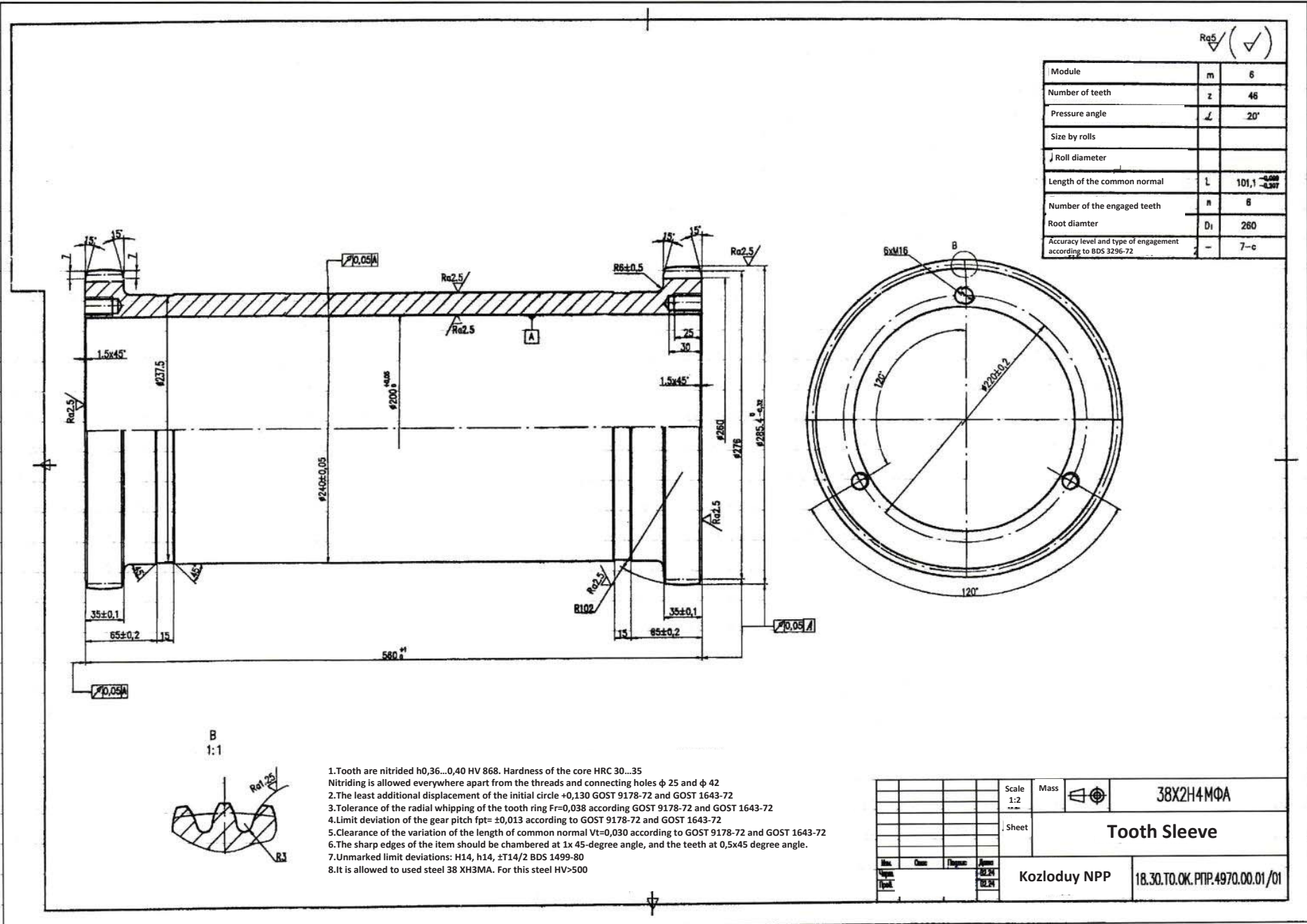
1. Technical Specification
2. Indicative offer form

**TECHNICAL SPECIFICATION (TABLE)**  
For the conduct of market consultants for manufacturing and supply of tooth sleeves

Designation: 5,6SA51,52								
<b>No.</b>	<b>BAAN No.</b>	<b>Description</b>	<b>Designation/Technical characteristics</b>	<b>Unit/ Unit of Measure</b>	<b>Quantity</b>	<b>Safety Class</b>	<b>Seismic resistance category</b>	<b>Other requirements</b>
1.	137696	Sleeve	Drawing No. 18.30.TO.OK.PIP.4970.00.01/01	Piece	4	4-H	3	
2.	137697	Left Sleeve	Drawing No. 18.30. TO.OK.PIP.4970.00.02/01	Piece	4	4-H	3	
3.	137698	Right Sleeve	Drawing No. I 8.30. TO.OK.PIP.4970.00.03/01	Piece	4	4-H	3	

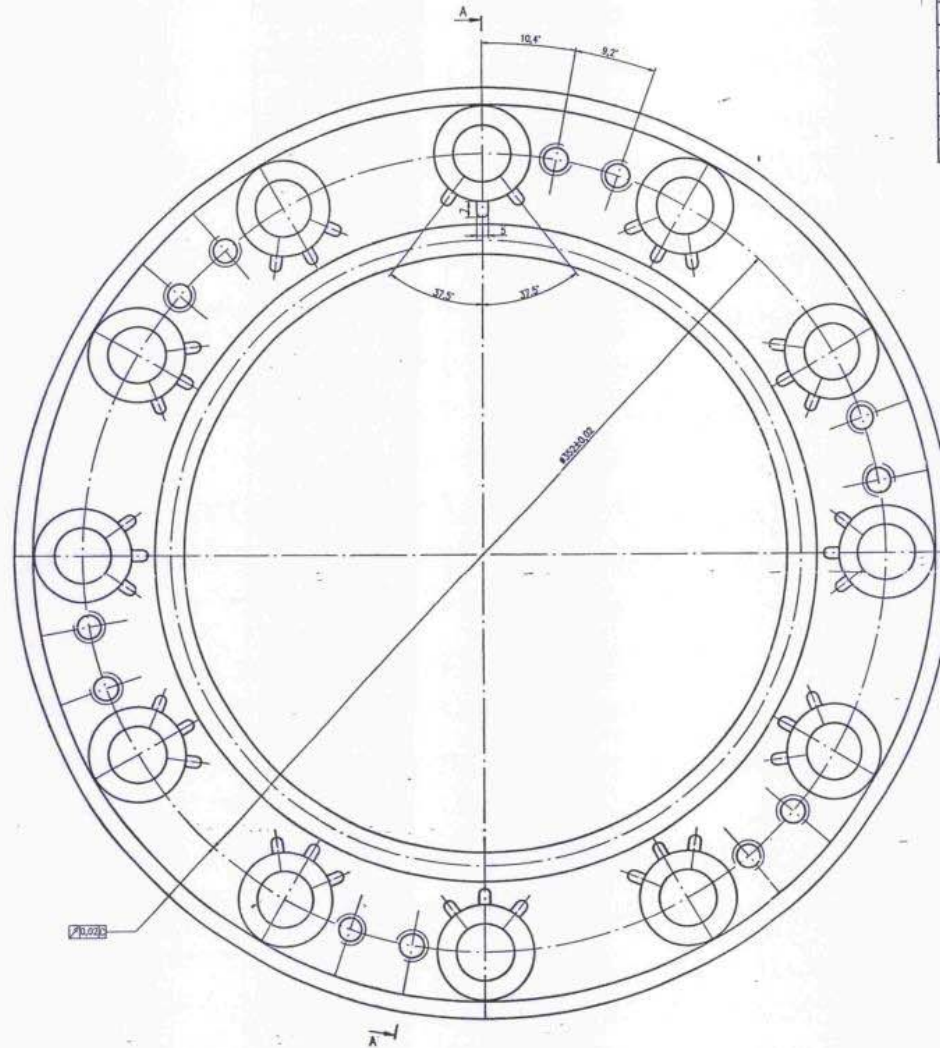
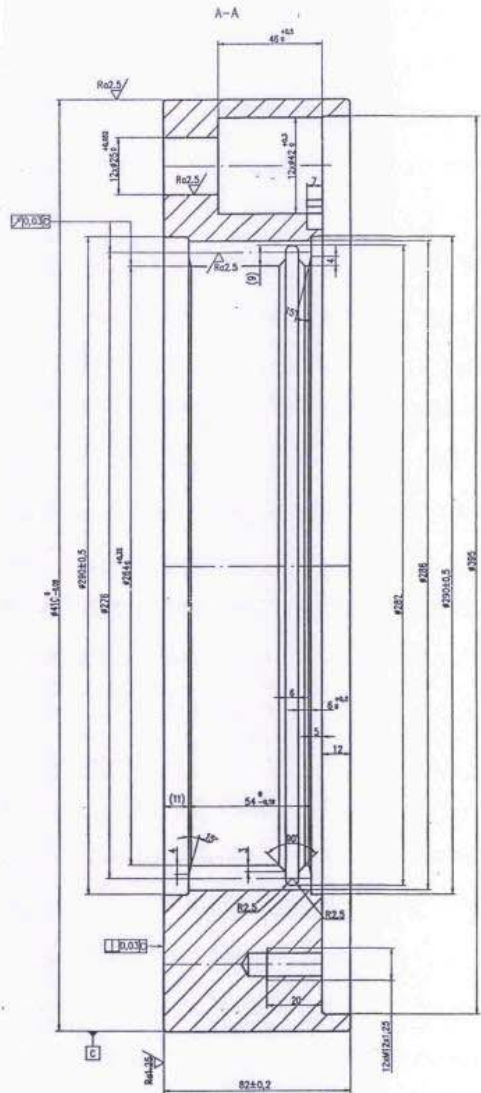
Ra5 (✓)

Module	m	8
Number of teeth	z	46
Pressure angle	α	20°
Size by rolls		
Roll diameter		
Length of the common normal	L	101,1 <sup>+0,008</sup> <sub>-0,307</sub>
Number of the engaged teeth	n	8
Root diameter	D <sub>i</sub>	260
Accuracy level and type of engagement according to BDS 3296-72		7-c



1. Tooth are nitrided h0,36...0,40 HV 868. Hardness of the core HRC 30...35  
Nitriding is allowed everywhere apart from the threads and connecting holes φ 25 and φ 42
2. The least additional displacement of the initial circle +0,130 GOST 9178-72 and GOST 1643-72
3. Tolerance of the radial whipping of the tooth ring F=0,038 according GOST 9178-72 and GOST 1643-72
4. Limit deviation of the gear pitch f<sub>pt</sub>= ±0,013 according to GOST 9178-72 and GOST 1643-72
5. Clearance of the variation of the length of common normal Vt=0,030 according to GOST 9178-72 and GOST 1643-72
6. The sharp edges of the item should be chamfered at 1x 45-degree angle, and the teeth at 0,5x45 degree angle.
7. Unmarked limit deviations: H14, h14, ±T14/2 BDS 1499-80
8. It is allowed to used steel 38 XH3MA. For this steel HV>500

Scale	1:2	Mass	38X2H4MΦA
Sheet	Tooth Sleeve		
Exec	Draw	Program	Approved
18.30	18.30	18.30	18.30
Kozloduy NPP			18.30.TO.OK.PTP.4970.00.01/01



R0.5 (✓)

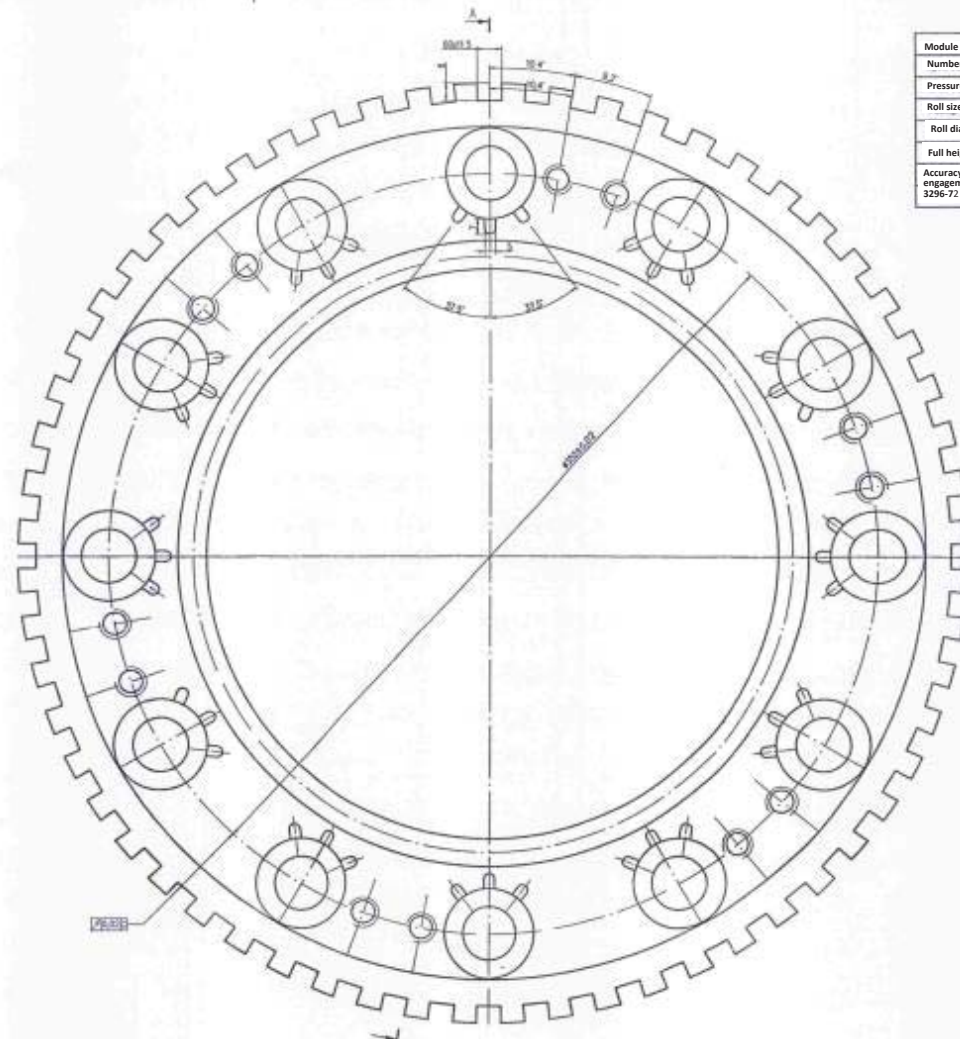
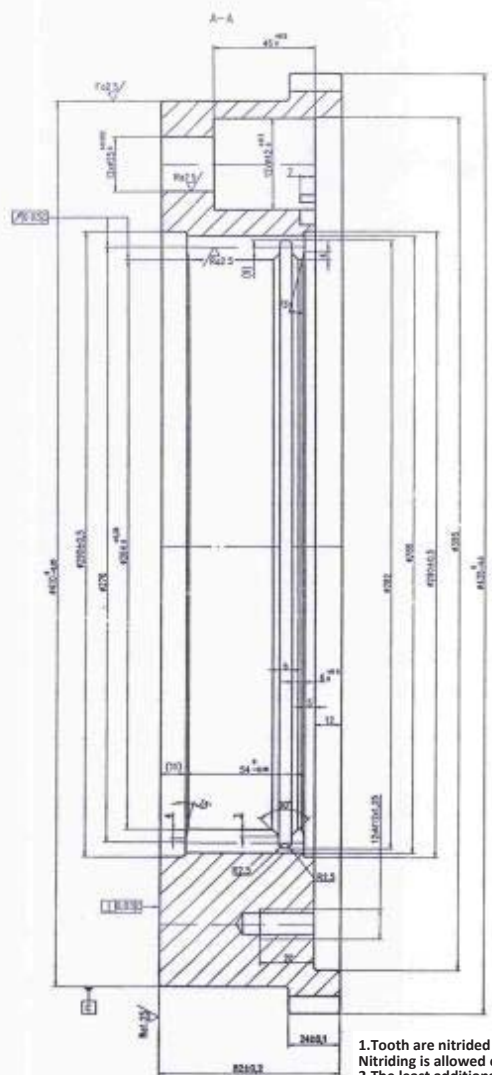
Module	m	6
Number of teeth	z	46
Pressure angle	$\alpha$	20°
Size of rolls	W	257,76 <sup>max</sup>
Roll diameter	d	10,95
Full height of the tooth	h	11
Accuracy level and type of engagement according to BDS 3296-72		7-C

1. Tooth are nitrided h0,36...0,40 HV 868. Hardness of the core HRC 30...35  
Nitriding is allowed everywhere apart from the threads and connecting holes  $\phi 25$  and  $\phi 42$
2. The least additional displacement of the initial circle  $+0,130$  GOST 9178-72 and GOST 1643-72
3. Tolerance of the radial whipping of the tooth ring  $F_r=0,019$  according GOST 9178-72 and GOST 1643-72
4. Limit deviation of the gear pitch  $f_p=\pm 0,019$  according to GOST 9178-72 and GOST 1643-72
5. Clearance of the variation of the length of common normal  $V_t=0,035$  according to GOST 9178-72 and GOST 1643-72
6. The sharp edges of the item should be chamfered at  $1 \times 45$ -degree angle, and the teeth at  $0,5 \times 45$  degree angle.
7. Unmarked limit deviations: H14, h14,  $\pm T14/2$  BDS 1499-80
8. It is allowed to used steel 38 XH3MA. For this steel HV>600

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Scale	1:1	Mass	38X24MM8A
Sheet	Left Tooth Sleeve		
Kozloduy NPP		18.30.TO.OK.PTP 4970.00.02/01	





Module	m	3
Number of teeth	z	8
Pressure angle	$\alpha$	20°
Roll size	$r_{a, roll}$	10.4
Roll diameter	$d_{roll}$	18.8
Full height of the tooth	$h$	11
Accuracy level and type of engagement according to BDS 3296-72		7-G

1. Tooth are nitrided h0,36...0,40 HV 868. Hardness of the core HRC 30...35  
Nitriding is allowed everywhere apart from the threads and connecting holes  $\phi 25$  and  $\phi 42$
2. The least additional displacement of the initial circle +0,130 GOST 9178-72 and GOST 1643-72
3. Tolerance of the radial whipping of the tooth ring  $Fr=0,053$  according to GOST 9178-72 and GOST 1643-72
4. Limit deviation of the gear pitch  $f_{pt} = \pm 0,019$  according to GOST 9178-72 and GOST 1643-72
5. Clearance of the variation of the length of common normal  $Vt=0,095$  according to GOST 9178-72 and GOST 1643-72
6. The sharp edges of the item should be chamfered at 1x 45-degree angle, and the teeth at 0,5x45 degree angle.
7. Unmarked limit deviations: H14, h14,  $\pm T14/2$  BDS 1499-80
8. It is allowed to use steel 38 XH3MA. For this steel HV>600

Scale	1:1	Material	38XH3MA
Sheet	1/1	Fact	Right Tooth Sleeve
Kozloduy NPP EAD 130 TO CK PIP 4976 00 03/01			