MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.
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MSETCL/CO/STU/TBCB/Monitoring/IE/10607 **Date:12/12/2025**

Budgetary Offer

Subject: Inviting Firm Offer for estimation purpose to Appointment of Independent Engineer for Monitoring of Transmission Project under TBCB.

We are writing to formally request a firm offer from your esteemed organization for the appointment of Independent Engineer to monitor the execution and construction of substations, transmission lines, underground cables, communication systems, and related infrastructure on behalf of the Maharashtra State Transmission Utility (MahaSTU). The transmission project is awarded to the Transmission Service Provider (TSP) under the Tariff-Based Competitive Bidding (TBCB) route. The appointment of Independent Engineer will be within the framework of the Transmission Service Agreement (TSA) executed between STU and the respective TSP.

As part of the ongoing and upcoming transmission projects, the Independent Engineer's role will be crucial in ensuring the successful and timely completion of the works. The IE/consultancy firm should have the qualifying requirements as enclosed at Annexure-I. Scope of Works of the individual Transmission Projects for which Independent Engineer is required to be appointed is enclosed at Annexure II.

The Independent Engineer shall deploy qualified and experienced personnel to carry out the assignment throughout the duration of the project execution period in accordance with task/requirement of the project. The experience, qualification and roles & responsibilities of key personal shall be as below:

Sr. No.	Position	Qualification and Experience required	Roles and Responsibilities
01	Team Leader cum Project Manager	BE/BTech (Elect/Mech/Civil) Should have at least 8 years post qualification experience in EHV transmission projects and have worked in at least two assignments for 220 kV or above voltage level as Team leader/Project Manager	Team Leader shall be responsible for- i) Monitoring Overall progress of project in coordination with TSP/SPV. ii) Verification of the Drawings, Design and specifications of material and equipments as per standards.

			iii) Identifying delays and lapses in project execution and ensure compliances with project timelines. iv) Witnessing and recording the testing and commissioning activities of major equipments. v) Coordination with S/s and line experts and verifying progress at actual and recorded through experts. vi) Submission of progress of project outlining each activity (using GANTT chart) on fortnightly basis.
2	Substation Expert(AIS/GIS as applicable)	BE/BTech (Elect) Should have at least 05 years experience in EHV transmission substation(AIS/GIS as applicable) projects and have worked in at least two assignments for 220 kV or above voltage level as Team leader/Project Manager	Substation Experts shall be responsible for – i) Monitoring and maintaining record of overall progress of substation including civil and electrical works. ii) Verification of the Drawings, Design and specifications of substation material and equipments as per standards. iii) Witnessing and recording the testing and commissioning activities of all substation equipments. iv) Submission of progress of substation activities to team leader on weekly basis.
3	Transmission Line Expert	BE/BTech (Elect/Civil) Should have at least 05 years experience in EHV transmission line projects and have worked in at least two assignments for 220 kV or above voltage level as Team leader/Project Manager	Transmission Line Experts shall be responsible for – i) Monitoring and maintaining record of overall progress of transmission line including civil and electrical works. ii) Verification of the Drawings, Design and specifications of transmission line material and equipments as per standards. iii) Witnessing the work of Conductor / Earth wire stringing, tower erection at critical locations. iv) Submission of progress of transmission line activities to team leader on weekly basis.

4	Field Engineer (Substation-AIS/GIS as applicable)	BE/BTech or Diploma (Elect/Civil) Should have at least 02 years experience in EHV transmission substation (AIS/GIS) construction projects.	Field Engineer (Substation)shall be responsible for – i) Daily Monitoring and maintaining record of progress of substation works including civil and electrical works. ii) Verification of the Drawings, Design and specifications of substation material and equipments as per standards. iii) Witnessing and recording the testing and commissioning activities of all substation equipments. iv) Submission of progress of substation activities to Substation Expert on daily basis.
5	Field Engineer (Transmission Line)	BE/BTech or Diploma (Elect/Civil) Should have at least 02 years experience in EHV transmission line construction projects.	Transmission Line Experts shall be responsible for – v) Daily Monitoring and maintaining record of progress of transmission line including civil and electrical works. vi) Verification of the Drawings, Design and specifications of transmission line material and equipments as per standards. vii) Witnessing the work of Conductor / Earth wire stringing, tower erection at critical locations. viii) Submission of progress of transmission line activities to Transmission Line expert on daily basis.

It is kindly requested to provide a project wise firm offer outlining the following details:

Sr No	Name of Project	Required Manpower Details	Manpower engagement period in Months	Rate/month (excl. GST)	Total Amount
1	Project 01- Establishment of 400/220 kV Velgaon Substation (GIS)	Team Leader- 01 Substation Expert- 01 Field Engineer (Substation) - 01 Transmission Line	22 months		

		Expert-01 Field Engineer(Trans Line)-01			
				GST Rate (in %)	
				GST Value (In INR)	
				Grand Total incl. GST	

Sr No	Name of Project	Required Manpower Details	Manpower engagement period in Months	Rate/month (excl. GST)	Total Amount
1	Project 02- Establishment of 400 kV D/C line from 400 kV Jejuri (existing) to 400 kV Hinjewadi (2000MW Capacity each)	Team Leader - 01 Transmission Line Expert- 01 Field Engineer(Substation AIS/GIS)- 01 Field Engineer(Transmission Line)-01	22 months		
				GST Rate (in %)	
				GST Value (In INR)	
				Grand Total incl. GST	

Sr No	Name of Project	Required Manpower Details	Manpower engagement period in Months	Rate/month (excl. GST)	Total Amount
1	Project 03- Establishment of 400/220 kV AIS Saswad (Dist. Pune)	Team Leader- 01 Substation Expert- 01 Field Engineer (Substation) - 01 Transmission Line Expert-01 Field Engineer(Trans Line)-01	22 months		
				GST Rate (in %)	
				GST Value (In INR)	
				Grand Total incl. GST	

Sr No	Name of Project	Required Manpower Details	Manpower engagement period in Months	Rate/month (excl. GST)	Total Amount
1	Project No 04 - Establishment of AIS Pune East	Team Leader- 01 Substation Expert- 01 Field Engineer (Substation) - 01 Transmission Line Expert-01 Field Engineer(Trans Line)-01	22 months		

GST Rate (in %)	
GST Value (In INR)	
Grand Total incl. GST	

Sr No	Name of Project	Required Manpower Details	Manpower engagement period in Months	Rate/month (excl. GST)	Total Amount
1	Project No 05 - Establishment of 400/220/132 kV AIS Umred (Dist. Nagpur)	Team Leader- 01 Substation Expert- 01 Field Engineer (Substation) - 01 Transmission Line Expert-01 Field Engineer(Trans Line)-01	22 months		
				GST Rate (in %)	
				GST Value (In INR)	
				Grand Total incl. GST	

Sr No	Name of Project	Required Manpower Details	Manpower engagement period in Months	Rate/month (excl. GST)	Total Amount
1	Project No 06 - Establishment of400/220/132 kV Washi SS (Dharashiv)	Team Leader- 01 Substation Expert- 01 Field Engineer (Substation) - 01 Transmission Line Expert-01 Field Engineer(Trans Line)-01	22 months		
				GST Rate (in %)	
				GST Value (In INR)	
				Grand Total incl. GST	

Sr No	Name of Project	Required Manpower Details	Manpower engagement period in Months	Rate/month (excl. GST)	Total Amount
1	Project No 07- Establishment of 400/220 kV AIS Wagdari	Team Leader- 01 Substation Expert- 01 Field Engineer (Substation) - 01 Transmission Line Expert-01 Field Engineer(Trans Line)-01	22 months		
				GST Rate (in %)	
				GST Value (In INR)	
				Grand Total incl. GST	

The Man-Month rates for remuneration for Key Personnel quoted above are inclusive of all costs such as salary & allowances etc. for carrying out all activities as per scope of work.

Cost to be incurred for carrying out scope of work as detailed in Annexure-I towards support staff and Travel of Key Personnel to site/substation/STU Office where work is to be carried out inclusive in the above rates.

- Please note that said budgetary offer is only for estimate purpose and no work order will be issued based on this Enquiry.
- All interested bidders are requested to submit their best reasonable budgetary offer for above works on Email ID: cestu@mahatransco.in/ semonitoring@mahatransco.in /eemonitoring@mahatransco.in upto. 17:00 Hrs on dtd. 17/12/2025

Yours faithfully

Peeyush S. Sharma
Chief Engineer (STU)

Annexure-I

Minimum Qualification Criteria for Appointment of Independent Engineer for "Name of Project"

Bidder must read the minimum Qualification criteria provided herein, Proposals of only those bidders who satisfy the minimum qualification will be considered for further evaluation using QCBS methodology. The proposal shall be submitted by an individual firm and not a JV/Consortium.

Employer reserves the right to waive minor deviations if they do not materially affect the capability of the Bidder to perform the contract.

1.1 <u>Technical Experience of firm:</u>

Bidder must meet the following minimum criteria as on the originally scheduled date of bid opening i.e.

i. The Bidder must have experience in providing consultancy services* as Independent Engineer/ Lender's Engineer/ Project Management Consultant for minimum one (01) no. of 220kV or above completed Substation# having atleast one (01) no. 220kV or above class ICT during last 07 years.

ii. The Bidder must have experience in providing consultancy services* as Independent Engineer/ Lender's Engineer/ Project Management Consultant for minimum one (01) no. of 220kV or above completed Transmission Line of line length 25 kms or above during last 07 years.

Note:

* *Consultancy services means services provided for review of engineering design/drawings & supervision of construction works.*

 # Substation mentioned anywhere in this document shall mean Substation / Switchyard / Gas Insulated Substation (GIS)/ Air Insulated Substation (AIS).

In case bidder is a holding company, the technical experience referred to in clause 1.1 above shall be of that holding company only (i.e. excluding its subsidiary / group companies). In case bidder is a subsidiary of a holding company, the technical experience referred to in clause 1.1 above shall be of that subsidiary company only (i.e. excluding its holding company).

1.2 Condition of Eligibility of Key Personnel:

The bidder must provide following key experts with qualifications and competence for the Assignment as mentioned below:

a) Project Management expert/Team Leader: Graduate in Electrical/ Mechanical / Civil Engineering having at least 8 years' experience in EHV transmission projects and have worked in at least two (2) assignments for 220kV or above transmission project as team leader/Project Manager.

b) Substation expert: Graduate in Electrical Engineering having at least 5 years' experience in EHV transmission substation projects and have worked in at least two (2) assignments for 220kV or above substation projects.

c) Field Engineer (Substation): Graduate/Diploma in Electrical/Civil Engineering having at least 2 years' experience in construction of EHV transmission substation projects.

1.3 Financial Position:

a) The Bidder shall have received a sum of minimum of INR 1 (One) Crore per annum as professional fees for last 03 (three) financial years. For the avoidance of doubt, professional fees hereunder refer to fees received by the Applicant for providing advisory or consultancy services to its clients and shall not include professional fee for undertaking dispute resolution proceeding before courts, tribunals or arbitrators.

b) The bidder should have positive net-worth for last three financial years.

Note: In case bidder is a holding company, the financial position referred to in clause 1.3 above shall be of that holding company only (i.e. excluding its subsidiary / group companies). In case bidder is a subsidiary of a holding company, the financial position referred to in clause 1.3 above shall be of that subsidiary company only (i.e. excluding its holding company).

Annexure - II

Project No 01 - Establishment of 400/220 kV Velgaon Substation (GIS)			
Sr No	**Scope of the Transmission Scheme**	**Scheduled COD in months from Effective Date**	**Details of Persons to be deputed**
1	**Establishment of 3x500 MVA, 400/220 kV ICT S/s (GIS)**	24 months	Team Leader- 01 Substation Expert(AIS/GIS)-01 Field Engineer (Substation-) - 01 Transmission Line Expert-01 Field Engineer(Trans Line)-01
	400/220 kV, 500 MVA ICT – 3 Nos.		
	400 kV ICT bays – 3 Nos.		
	400 kV Line bays – 4 Nos.		
	220 kV ICT bays – 3 Nos.		
	220 kV line bays- 10 Nos		
	125 MVAr Bus Reactor at 400 kV level – 1 No.		
	220 kV Bus Sectionaliser bay -01 No.		
	Space For Future Scope:		
	1x500MVA, 400/220kV ICT		
	400 kV Line bays for connectivity with Boisar –II (PG) -02 Nos.		
	220 kV Line bays – 04 nos		
	400kV ICT bay- 1 No.		
	220kV ICT bay – 1 No		
	220 kV Bus Sectionaliser bay -01 No		
	Scope of the Transmission Schem		
2	400 kV LILO on Tarapur-Kudus II D/C line		
3	220 kV LILO on Dahanu-Ghodbunder D/C line		
4	220 kV LILO on Boisar-Borivali S/C line		
5	220 kV LILO on Dahanu-Versova S/C line		
6	220 kV LILO on Boisar-Versova S/C lin		

Project No 02 - Establishment of 400 kV D/C line from 400 kV Jejuri (existing) to 400 kV Hinjewadi (2000MW Capacity each)			
Sr No	**Scope of the Transmission Scheme**	**Scheduled COD in months from Effective Date**	**Details of Persons to be deputed**
1	400 kV D/C line from 400 kV Jejuri (existing) to 400 kV Hinjewadi (2000MW Capacity each)	24 months	Team Leader-01 Transmission Line Expert- 01 Field Engineer(Substation-AIS/GIS)-01 Field Engineer(Transmission Line)-01
	400kV Line bay at 400 kV Jejuri Substation: 2 Nos. (GIS)*		
	400kV Line bay at 400 kV Hinjewadi Substation:2 Nos. (GIS)**		

Annexure - II

Project No 03 - Establishment of 400/220 kV AIS Saswad (Dist. Pune)			
Sr No	**Scope of the Transmission Scheme**	**Scheduled COD in months from Effective Date**	**Details of Persons to be deputed**
1	Establishment of 2x500MVA, 400/220 kV AIS with 1x125 MVAR bus	24 months	Team Leader- 01 Substation Expert(AIS/GIS)-01 Field Engineer (Substation) - 01 Transmission Line Expert-01 Field Engineer(Trans Line)-01
	Reactor at 400 kV level.		
	400/220 kV, 500 MVA, ICT – 2 Nos.		
	125 MVAr, 400 kV Bus Reactor -1 No		
	400 kV ICT bays – 2 Nos.		
	220 kV ICT bays – 2 Nos.		
	400 kV line bays – 4 Nos.		
	220 kV line bays – 8 Nos.		
	400 kV reactor bay– 1 No.		
	Future space Provisions:		
	400/220 kV, 500 MVA, ICT – 1 No.		
	400 kV ICT bays – 1 No.		
	220 kV ICT bays – 1 No.		
2	400 kV Line bays at 765 kV (GIS) Pune-(III) (proposed)		
	400 kV GIS line bay - 2 Nos		
3	220 kV Line Bays at 220 kV AIS Theur (Existing)		
	220 kV AIS line bay - 02 Nos		
4	220 kV Line Bays at 220 kV AIS Nanded City (Existing)		
	220 kV (AIS) line bay - 02 Nos		
5	400 kV D/C line from 400 kV AIS Saswad (New) to 765 kV (GIS) Pune-III (Proposed)		
6	LILO on 400 kV S/C line from 400 kV AIS Lonikand-I (Existing) to 400 kV GIS Koyna (Existing) at 400 kV AIS Saswad(New)		
7	220 kV D/C line with HPC Conductor from 400 kV AIS Saswad (New) to 220 kV (AIS) Theur (existing)		
8	LILO on both circuits of 400 kV AIS Jejuri (Existing) to 220 kV AIS Phursungi (Existing) D/C 220 kV line at 400 kV AIS Saswad (New)		
9	220 kV D/C line from 400 kV AIS Saswad(New) to 220 kV AIS Nanded City (Existing)		

Project No 04 - Establishment of AIS Pune East			
Sl. No.	**Scope of the Transmission Scheme**	**Scheduled COD in months from Effective Date**	**Details of Persons to be deputed**
1	Establishment of AIS Pune East with 2x1500 MVA, 765/400 kV ICT with 1x240 MVAR bus Reactor at 765 kV level	24 months	Team Leader- 01 Substation Expert-01 Field Engineer (Substation) - 01 Transmission Line
	765/400 kV, 1500 MVA, ICT – 2 Nos.		
	(7x500 MVA single phase units including one spare ICT Unit)		
	240 MVAr, 765 kV Bus Reactor -1 No.		
	(4 x 80 MVAr single phase units including one spare Reactor Uni		

	765 kV ICT bays – 2 Nos.		Expert-01 Field Engineer(Trans Line)-01
	400 kV ICT bays – 2 Nos.		
	765 kV line bays – 4 Nos.		
	400 kV line bays – 4 Nos.		
	765 kV reactor Bay– 1 No.		
	Future space Provisions:		
	765 kV line bays- 06 Nos.		
	400 kV line bays – 04 Nos		
2	LILO of both circuits of 765 kV Pune(GIS) (Shikrapur-PG)(Existing) to 765 kV Pune-III(GIS)(Proposed) 765 kV D/C line at 765 kV AIS Pune(East)		
3	400 kV D/C line from 765 kV AIS Pune (East) to 400 kV AIS Karjat (Existing)		
4	400 kV D/C line from 765 kV AIS Pune(East) to 400 kV AIS Lonikand-II (Existing)		
5	400 kV line end bays at 400 kV AIS Karjat (Existing) and 400 kV AIS Lonikand- II (existing)		
	400 kV line bays at 400 kV AIS Kajrat (existing) - 2 Nos		
	400 kV line bays at 400 kV AIS Lonikand-II (existing) - 2 Nos		

Project No 05-Establishment of 400/220/132 kV AIS Umred (Dist. Nagpur)			
Sl. No.	**Scope of the Transmission Scheme**	**Scheduled COD in months from Effective Date**	**Details of Persons to be deputed**
1.	Establishment of 2 x 500MVA, 400/220 kV ICTs	24 Months	Team Leader- 01 Substation Expert- 01 Field Engineer (Substation) - 01 Transmission Line Expert-01 Field Engineer(Trans Line)-01
	Establishment of 2 x 300MVA, 400/132 kV ICTs		
	Establishment of l x 125 MVAR bus Reactor at 400 kV level.		
	400/220 kV, 500 MVA, ICT- 2 Nos.		
	400/132 kV, 300 MVA, ICT-2 Nos.		
	125 MVAr, 400 kV Bus Reactor -1 No.		
	400 kV ICT bays -4 Nos.		
	220 kV ICT bays -2 Nos.		
	132 kV ICT bays -2 Nos.		
	400 kV line bays -4 Nos.		
	220 kV line bays - 6 Nos.		
	132 kV line bays - 6 Nos		
	400 kV Bus Reactor bay-1 No.		
	Space Provision for Future Scope:		
	1 x 300MVA, 400/132kV ICT		
	400 kV ICT bay- 1 No.		
	132 kV ICT bay – 1 No		
2.	LILO on Both circuits of 400 kV Tiroda (Adani) (existing) - Warora (MSETCL) (existing) D/C line at 400/220/132 kV Umred (New)		

3.	220 kV D/C line from 400/220/132 kV Umred (New) to 220 kV Add. Buttibori (Proposed)		
4.	LILO on Both circuit of 220 kV Umred (existing)-Nagbhid (proposed) D/C line at 400/220/132 kV Umred (New)		
5.	132 kV D/C line from 132 kV Kolari (existing) to 400/220/132 kV Umred (New)		
6.	LILO on 132 kV Kanhan – Bhandara Ckt at 400/220/132 kV Umred (New)		
7.	LILO on 132 kV Kanhan – Mouda Ckt at 400/220/132 kV Umred (New)		
8.	220 kV Line End Bays at 220 kV Addl. Buttibori (Proposed)- 02 Nos		
9.	132 kV Line End Bays at 132 kV Kolar (Exisitng)- 02 Nos		

Project No 06-Establishment of Washi SS (Dharashiv)			
Sl. No.	**Scope of the Transmission Scheme**	**Scheduled COD in months from Effective Date**	**Details of Persons to be deputed**
	Establishment of Washi SS with 2x500 MVA, 400/220 kV ICT and 2x300 MVA, 400/132 kV ICT with 1x125 MVAR bus Reactor at 400 kV level	24 Months	Team Leader- 01 Substation Expert- 01 Field Engineer (Substation) - 01 Transmission Line Expert-01 Field Engineer(Trans Line)-01
	400/220 kV, 500 MVA, ICT – 2 Nos.		
	400/132 kV, 300 MVA, ICT – 2 Nos.		
	125 MVAr, 400 kV Bus Reactor -1 No		
	400 kV ICT bays – 4 Nos.		
	220 kV ICT bays – 2 Nos.		
	132 kV ICT bays – 2 Nos.		
	400 kV line bays – 2 Nos.		
	220 kV line bays – 4 Nos.		
	132 kV line bays – 2 Nos		
	400 kV reactor bay– 1 No.		
	Future space Provisions:		
	220 kV line bay for Solar Generators 8 Nos.		
1	132 kV line bay for Solar Generators 8 Nos.		
2	400 kV D/C line from 400/220/132 kV AIS Washi (new) to 765/400 KV AIS Pune (East)(Proposed)		
3	220 kV D/C Line from 400/220/132 kV AIS Washi (New) to 220 kV AIS Manjarsumba (existing)		
4	220 kV D/C Line from 400/220/132 kV AIS Washi (New) to 220 kV AIS Paranda (existing)		
5	132 kV D/C line from 400/220/132 kV Washi (New) to 132 kV AIS Kalamb (existing)		
6	220 kV bays at Manjarsumba (existing) S/s and Paranda (existing) S/s		

	220 kV (AIS) line bay at 220 kV Manjarsumba (existing)- 2 Nos		
	220 kV (AIS) line bay at 220 kV Paranda (existing) - 2 Nos		
	400 kV line bays at 765 kV AIS Pune (East) (New) (Proposed) for termination of 400 kV D/C line from 400 kV AIS Washi(new) to 765 kV AIS Pune (East)(Proposed)		
7	400 kV line bay at Pune (East)(Proposed) – 2 Nos.		
	132 kV line bays at 132 kV AIS Kalamb for termination of 132 kV D/C line from 400 kV AIS Washi (New) to 132 kV AIS Kalamb (existing)		
8	132 kV line bay at Kalamb (Existing)– 2 Nos.		

Project No 07-Establishment of AIS Wagdari

Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date	Details of Persons to be deputed
1	Establishment of AIS Wagdari with 3x500 MVA, 400/220 kV ICT with 1x125 MVAr Bus Reactor at 400 kV level.	24 Months	Team Leader- 01 Substation Expert- 01 Field Engineer (Substation) - 01 Transmission Line Expert-01 Field Engineer(Trans Line)-01
	400 / 220 kV, 500 MVA, ICTs – 03 Nos.		
	400 kV Line Bays – 04 Nos.		
	400 kV ICT Bays – 03 Nos		
	400 kV Bus Reactor Bay- 01 No.		
	220 kV Line Bays -04 Nos.		
	220 kV ICT Bays – 03 Nos.		
	Future Space Provisions:		
	Establishment of 1x500 MVA 400/220 kV ICT		
	400 / 220 kV, 500 MVA, ICT – 01 No.		
	400 kV ICT Bays – 01 No.		
	220 kV ICT Bays – 01 No.		
2	400 kV D/C line from 400 kV AIS Wagdari (New) to 765 kV Pune (East) (Proposed)		
	400 kV ,63 MVAr Switched Line Reactor at 400 kV AIS Wagdari-02 Nos		
	400 kV ,50 MVAr Switched Line Reactor at 765 kV AIS Pune(East)(proposed)-02 Nos		
	400 kV AIS line bays at 765 kV AIS Pune (East)(proposed)-02 Nos		
3	400 kV D/C line from 400 kV AIS Wagdari (New) to 400 kV Solapur Pooling Station(Sec-II) (PG)		
	400 kV line bays at 400 kV Solapur Pooling station(Sec-II) (PG)-02 Nos		
4	220 kV D/C Line from 400 kV AIS Wagdari (New) to 220 kV AIS Wagdari (Proposed)		

	220 kV AIS line bays at 220 kV AIS Wagdari(proposed)-02 Nos		
5	Establishment of 400 kV line Bays for Solar Generators at 400 kV AIS Wagdari.		
	400 kV line bays - 04 Nos		
6	Establishment of 220 kV line bays for Solar Generators 400 kV AIS Wagdari.		
	220 kV line bays - 04 Nos		
7	220 kV D/C line from 400 kV AIS Wagdari (New) to 220 kV AIS Narangwadi (Existing)		
	220 kV AIS line bays at 220 kV AIS Narangwadi (existing)-02 Nos		