



ಭಾ. ಕೃ. ಅನು. ಪ - ಭಾರತೀಯ ತೋಟಗಾರಿಕಾ ಸಂಶೋಧನಾ ಸಂಸ್ಥೆ  
ಹೆಸರಗಟ್ಟ ಕೆರೆ ಅಂಚೆ, ಬೆಂಗಳೂರು-560 089

भा.कृ.अनु.प.- भारतीय बागवानी अनुसंधान संस्थान  
हेसरघट्टा लेक पोस्ट, बेंगलूरु - 560 089

ICAR-Indian Institute of Horticultural Research  
Hesaraghatta Lake Post, Bengaluru - 560 089

EPABX: 080-23086100 Extn: 218 & 217

FAX: 080-28466291 – Email: purchase.iihr@icar.gov.in



F.No.5-96/2021-22/IIHR/SP/

Dated: 05.04.2022

**NOTICE FOR INVITING TENDER THROUGH E-PROCUREMENT-2<sup>nd</sup> Call**

Online Bids are invited from interested firms under **Two bid system (Technical bid/financial bid)** for **Supply of Stereomicroscope - 01 No. to ICAR-IIHR**, Manual bids shall not be entertained.

Tender documents may be downloaded from e-procurement website of CPPP  
<https://eprocure.gov.in/eprocure/app> as per the schedule given in CRITICAL DATE SHEET as under:

**CRITICAL DATE SHEET**

Tender No.	F.No.5-96/2021-22/IIHR/SP
Name of Organization	ICAR-INDIAN INSTITUTE OF HORTICULTURAL RESEARCH, Hesaraghatta Lake Post, Bangalore
Date and Time for Issue/Publishing	05.04.2022 at 04:00 PM
Document Download/Sale Start Date and Time	05.04.2022 at 04:00 PM
Bid Submission start Date and Time	05.04.2022 at 04:00 PM
Bid Submission End Date and Time	23.04.2022 at 03:00 PM
Date and Time for Opening of Technical Bids	25.04.2022 at 11:00 AM
Address for Communication	Asstt. Admn. Officer (Store Purchase), IIHR, Hesaraghatta Lake Post, Bangalore

**INSTRUCTIONS FOR ONLINE BID SUBMISSION**

1. The Tender form/bidder documents may be downloaded from the <https://eprocure.gov.in/eprocure/app>. **Online submission of Bids through** Central Public Procurement Portal (<https://eprocure.gov.in/eprocure/app>) is mandatory. Manual/Offline bids shall not be accepted under any circumstances.
2. Tenderers/bidders are requested to visit the website <https://eprocure.gov.in/eprocure/app> regularly. Any changes/modifications in tender enquiry will be intimated by corrigendum through this website only.
3. In case, any holiday is declared by the Government on the day of opening, the tenders will be opened on the next working day at the same time. The Council reserves the right to accept or reject any or all the tenders.
4. The interested Firms are required to deposit (in original) **EMD of Rs.37,500/-** in the shape of Demand Draft in favour of **THE DIRECTOR, ICAR, UNIT-IIHR payable at Bangalore** may be address to **Asstt. Admn. Officer (Purchase), IIHR, Hessaraghatta Lake Post, Bangalore-560089** on or before **bid opening date and time as mentioned in the Critical Date Sheet.**
5. **Please note that only online Bids will be accepted. However hard copy of documents and technical brochures uploaded by the firm deposited to Asstt. Admn. Officer (Purchase), IIHR, Hessaraghatta Lake Post, Bangalore-560089 on or before bid opening date and time as mentioned in the Critical Date Sheet.**
6. Bidders need not to come at the time of Technical as well as financial bid opening at IIHR. They can view live bid opening after login on CPPP e-procurement portal at their remote end. If any dispute arises, Within Bengaluru Jurisdiction only.
7. The firms are also required to upload copies of the following documents:-
  - **Technical Bid**
    - a) Scanned copy of MSME/ Udyog Aadhar or NSIC is a must for EMD Exemption otherwise, firms have to furnish EMD.
    - b) Scanned copy of Firm's registration with register of companies, PAN Card, GST No.
    - c) Scanned copy of Income Tax Returns Statement, for the financial year 2018-19, 2019-20 & 2020-21
    - d) Scanned copy of duly signed Annexure-I, II, IV & Tender acceptance letter (Annexure-V) duly signed.
    - e) Scanned copy of latest GST returns for the month of 03/2022

- f) Scanned copy of Chartered Accountant certified profit and Loss account, Balance sheet which are used for filing IT returns only are to be enclosed regarding firm's/Company turnover of Rs.45.00 lakhs per year during the period 2018-19, 2019-20 & 2020-21
- g) Scanned copy of User List/Purchase Orders of its satisfactory installation.
- h) Scanned Copy of Make and model of all systems, sub systems and additional items should be mentioned in the technical bid and complete technical details should be provided in the form of Brochures and write-ups.
- **Financial Bid:-**
    - a) Price Bid as BOQ XXX.xls

**Sd/-**  
**(G.G. HARAKANGI)**  
**Chief Administrative Officer, Sr. Grade**

Terms & Conditions

1. The tenderer shall quote rates GST, Freight charges if any, should be indicated separately.
2. The rates should be quoted as per the BOQ uploaded on the CPP Portal (reference may be obtained from Annexure-III). GST, if any, should be indicated separately. It must be noted that the contract shall be awarded to the firm which fulfils all the required terms and conditions and remains L-I for any particular items.
3. The firm must also possess valid PAN No. & GST registration number and a copy of the same must also be enclosed with the tender document.
4. Copy of Financial year 2018-19, 2019-20 & 2020-21 Income Tax Statement may be furnished.
5. The firm should be in existence for over 05 (Five) years in the trade with the business turnover of not less than Rs.45 Lakhs per annum for 2018-19, 2019-20 & 2020-21. Chartered Accountant certified profit and Loss account, Balance sheet to this effect may be enclosed.
6. Modification in the tender documents after the closing date is not permissible.
7. The successful firm shall have to **Supply of Stereomicroscope - 01 No. to ICAR-IIHR** within 20 days from the date of confirmed supply order and if the materials are not supplied in time then EMD shall be forfeited. The rates quoted shall be valid for one year from the date of opening of tender.
8. The contractor/bidder or his representative may contact the undersigned at **Tel. No. 080-23086100 Extn: 217, 218 & 202** for any further clarification. No variation in terms of quality of the items shall be entertained or else EMD/Security deposit shall be forfeited.
9. The Director, ICAR-IIHR, shall have the right to reject all or any of the offers, accept more than one offer, and assign part of the job without assigning any reason.
10. Merely quoting of lowest rates does not mean that order shall be given to that firm. The competent authority will finally decide on the basis of quality & performance of past installations.
11. The interested Firms are required to deposit (in original) an **Earnest Money Deposit of Rs.37,500/-** amount mentioned against item in the form of Demand Draft from any of the Commercial Bank in favour of **THE DIRECTOR, ICAR, UNIT-IIHR payable at Bangalore** may be address to **Asstt. Admn. Officer (Purchase), IIHR, Hessaraghatta Lake Post, Bangalore-560089 on or before bid opening date and time as mentioned in the Critical Date Sheet.** No quotation shall be considered without the earnest money deposit. Demand draft drawn in favour of any officer other than 'THE DIRECTOR, ICAR UNIT-IIHR payable at Bangalore' will not be accepted and the tender will be rejected. The earnest money will be refunded only after the finalization of the procurement and no interest will be paid on earnest money. The request letter for refund of EMD & performance security is to be submitted by the firm within six months from date of tender notification.
12. Rates once finalized will not be enhanced/reduced during the currency of the contract.
13. In case, the successful bidder shows inability at any stage, after the contract is finalized and awarded, for whatsoever reason(s), to honour the contract, the earnest money /performance security deposited would be forfeited.
14. The Director, ICAR-IIHR reserves the right to cancel the contract at any time during the currency period of the contract without giving any reason.
15. The firm, to whom the tender will be awarded, will have to deposit the performance security equal to 3% of the basic value of equipment at the time of installation of equipment. If the services are not found to be satisfactory, the performance security is liable to be forfeited. No interest will be paid on performance security.
16. If any dispute(s) arises between IIHR and the firm with reference to the contract, IIHR will decide it and its decision will be binding on the firms.

18. Bid Validity: 180 days

19. Our Institute is registered with DSIR and we are exempted from Excise Duty & Custom Duty. Hence CDEC/DSIR Certificate will be provided to the firm, if demanded. GST/Central Excise should be quoted accordingly.

20. Payment:- The payment will be released after satisfactory certificate from the Indentor.

**Payment Terms: In order to facilitate for speedy settlement of payment you are requested to furnish the following details as below:**

1. **Name of the firm:**
2. **Name of the Bank:**
3. **IFSC Code of Bank:**
4. **Name of the Account & Account No.:**
5. **Branch Code:**
6. **Amount to be paid:**
7. **E-mail address of the party:**
8. **GST No. and Pan No. Copies**

21. **Terms of delivery:**

**Delivery at site viz. —ICAR-IIHR, Hesaraghatta lake Post, Bangalore-560089.**

22. Installation:- Within *10 days from the date of receipt of equipment* in the Institute failing which Liquidated Damage clause shall apply.

Liquidated Damage clause: It would be realized @ 0.5% (half per cent) of the base price (excluding taxes) of the delayed goods for each week of delay subject to maximum 10%.

23. Prices:

**Price structure:**

- a) **The tenderer shall quote for the complete requirement of goods and services and for the full quantity as shown against a serial number in the List of Requirements in Annexure - VIII. Unless otherwise specified in Annexure – VIII, the tenderers are, however, free not to quote against all the serial numbers mentioned in the list of requirements (in case there are more than one serial number in the list of requirements).**
- b) **The guarantee & warranty of the equipment is One year from the date of Installation.**
- c) **The rates and prices quoted shall be in Indian Rupees**
- d) **GST rate and amount and basic value of equipment is to shown separately along with GST registration No. and Pan No. otherwise tender will be rejected.**
- e) **ICAR-IIHR is registered with DSIR and eligible for Concession GST @ 5% accordingly rates are to be quoted otherwise tender will be rejected.**
- f) The rates and prices quoted by the supplier shall remain firm and fixed during the currency of the contract and shall not be subject to variation on any account, whatsoever, including statutory variations, if any.
- g) The performance security / Security deposit, deposited by the successful bidder shall be released on satisfactorily certificate and also producing the relevant documents of GST returns for having remitted the GST amount paid by the institute to the concerned authority.

Dated

‘Terms & Conditions are acceptable’  
(Authorized signatory of the firm)

### Annexure-III

(Reference for BOQ) (To be quoted in format provided on CPP Portal)

Price bid for “**Supply of Stereomicroscope - 01 No. to ICAR-IIHR**”, Hesaraghatta lake Post, Bangalore-560 089.

Sl. No.	Name of item	Quantity	Per unit price* (in figures/words) (as per BOQ)
01	<b>Supply of Stereomicroscope - 01 No. to ICAR-IIHR</b> *	01 No.	

\*Annexure-VIII

- Items should be of reputed make and suitable for high end elite users
- GST/Excise duty extra as applicable should be indicated separately in the column provided.
- **The instrument is to be installed at ICAR-IIHR, Hesaraghatta lake post, Bangalore-560089**

**Note:** The above mentioned Financial Proposal/Commercial bid format is provided as BoQ\_XXXX.xls along with this tender document at <https://eprocure.gov.in/eprocure/app>. Bidders are advised to download this BoQ\_XXXX.xls as it is and quote their offer/rates in the permitted column and upload the same in the Financial bid. **Bidder shall not tamper/modify downloaded price bid template in any manner.** In case if the same is found to be tempered/modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with IIHR.

**Annexure-IV**

EPABX: 080-23086100 Extn: 218 & 217  
FAX: 080-28466291 - Email: purchase.ihr@icar.gov.in



**ICAR-INDIAN INSTITUTE OF HORTICULTURAL RESEARCH**  
**HESSARAGHATTA LAKE POST, BANGALORE-560 089**

Name of the Firm \_\_\_\_\_

Registered/Postal Address \_\_\_\_\_

1	Permanent Account Number (PAN)	
2	GST Registration No.	
3	Bank Details	
a	Bank Name	
b	Branch Address	
c	Account Number	
d	Type of account (current/saving) MICR No.	
e	IFSC Code	
f	Contact person name: Email : Mobile number:	

Date:

Name of the Authorized Signatory

Place:

Stamp & Signature

**TENDER ACCEPTANCE LETTER**  
(To be given on Company Letter Head)

**Date:**

To,  
The Director,  
ICAR-IIHR,  
Hesaraghatta Lake Post,  
Bangalore-560089.

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No. \_\_\_\_\_

Name of Tender/Work:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Dear Sir,

1. I/ We have downloaded/obtained the tender document(s) for the above mentioned 'Tender/work' from the web site(s) namely:

\_\_\_\_\_  
\_\_\_\_\_

As per your advertisement, given in the above mentioned website(s).

2. I/We hereby certify that I/We have read the entire terms and conditions of the tender documents from Page No. \_\_\_\_\_ to \_\_\_\_\_ (including all documents lime annexure(s), schedule(s), etc...) which form part of the contract agreement and I/We shall abide hereby the terms/conditions/clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/organization too have also been taken into consideration, while submitting this acceptance letter.
4. I/we hereby unconditionally accept the tender conditions of above mentioned tender documents/corrigendum(s) in its totality/entirely.
5. I/we do hereby declare that our Firm has not been black-listed/debarred by any Govt. Department/Public sector undertaking.
6. I/we certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/organization shall without giving any notice or reason therefore or summarily reject that bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)



**Annexure-VI**

**INSTRUCTIONS FOR ONLINE BID SUBMISSION**

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at <https://eprocure.gov.in/eprocure/app>.

#### REGISTRATION

- Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL <https://eprocure.gov.in/eprocure/app>.) by clicking on the link '**Online bidder Enrollment**' on the CPP Portal which is free of charge.
- As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (class II or Class III certificates with signing key usage) issued by any certifying authority recognized by CCA India (e.g. Sify/nCode/eMudhra etc.) with their profile.
- Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- Bidder then logs in to the site through the secured log-in by entering their users ID/password and the password of the DSC/e-Token.

#### SEARCHING FOR TENDER DOCUMENTS

- There are various search options built in the CPP Portal. To facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- Once the bidders have selected the tenders they are interested in, they may download the required documents/tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS/e-mail in case there is any corrigendum issued to the tender document.
- The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification/help from the Helpdesk.

#### PREPARATION OF BIDS

- Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in

which the bid documents have to be submitted, the number of documents- including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

- Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/schedule and generally, they can be in PDF/XLS/RAR/DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- To avoid the time and effort required I uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use 'My Space' or 'Other important Documents' area available to them to upload such documents. These documents may be directly submitted from the 'My Space' area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

#### SUBMISSION OF BIDS

- Bidder should log into the site wll in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other technical issues.
- The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- Bidder has to select the payment option as 'offline' to pay the tender fee/EMD as applicable and enter details of the instrument.
- Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- Bidders are requested to note that they should necessarily submit their financial bids in the Format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cell with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric, encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

- The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- Upon the successful and timely submission of bids (i.e. after clicking 'Freeze Bid Submission' in the portal), the portal will give a successful bid submission message and a bid summary will be displayed with the bid no. and the date and time of submission of the bid with all other relevant details.
- The bid summary has to be printed and kept as an acknowledgement of the submission of the bid.

#### ASSISTANCE TO BIDDERS

- Any queries relating to the tender documents and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contract person indicated in the tender.
- Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

\*\*\*\*\*

## Details of Equipments &amp; EMD

Sl. No.	Purchase of item	Qty	Earnest Money in INR	File. No. for reference
01	<b>Supply of Stereomicroscope - 01 No. to ICAR-IIHR *</b>	<b>01 No.</b>	Rs.37,500/-	F.No.5-96/2021-22/SP/IIHR

Note: EMD defined on to the Portal is MINIMUM. Bidder has to submit the EMD as per item for which quoting for.

**\*Installation at ICAR-IIHR, Hesaraghatta lake Post, Bangalore.**

**TECHNICAL SPECIFICATION FOR SUPPLY of STEREO MICROSCOPE**  
**- 01 No. to ICAR-IIHR**

<b>Specifications</b>		
1	Optical light path	Fully Apochromatically corrected light path
2	Microscope Stand	Stand with motorized focusing unit. Capable of future upgradation for motorized scanning stage, Objectives and other attachments.
3	Zoom ratio	20.5:1 or better
4	Focus Column	Motorized Focus column of minimum 620mm or more with course and fine adjustment
6	Observation Tube	Observation tube with at least 30 degree viewing angle switchable between 100% for eyepiece to 100% for Camera
7	Total Magnification	Magnification with 1x Plan apochromatic objective and 10x eyepiece should range from minimum 7.8x – 150x with working distance of 60 mm or higher
	Objective	0.63x Plan apochromatic Objective or better
8	Resolution	The Instrument should have minimum resolution of 525 LP/MM with 1X Plan Apochromatic Objective
9	Upgradation Possibilities	Should be upgradable to maximum magnification 1280x or more by using additional objective fitted with coded nose piece and different eyepiece combinations, Scanning stage with precise XY position reproducibility
10	Free Working Distance	65 mm or more with 0.63x Apochromatic Objective
11	Inter pupillary Distance	55mm - 75mm
12	Eye pieces	10X Eyepiece pair with 22/23 mm FOV Focusable and diopter adjustable in both the eyepieces
13	Reflected light Illumination	Highly Diffused LED Light attachment with Flexible Dome for better imaging of highly reflective surface
	Brightness control	Brightness control from 0% to 100% light intensity.
	Transmitted light Illumination	Fully coded transmitted Light Base with Rottermann Contrast, bright field and two sided darkfield. LED Illumination with 30000 hrs lifetime. Should be compatible with scanning stage and life cell equipment. Transmitted light intensity and shutter should be controllable via software as well as external control unit
15	Microscopic camera	Digital 12 Megapixel CMOS/CCD Sensor Camera with 4K resolution at 60fps in live mode over HDMI Wi-Fi & Ethernet facility should be available, Camera with software should work on standalone mode via HDMI/USB with only monitor. USB 3.1 or better interface
16	Software	Software for image capturing, user experience customization, overlay multiple images, document groups for side by side image comparison, movie

		<p>playback, Tile image, snap /movie acquisition, Multiple image alignment, Live deburring, Image processing, Image analysis, automatically compose word report</p> <p>Motorized Z focus control with Extended Depth of Field (EDOF) for creating single EDOF image from 3D image stack.</p> <p>Interactive measurement module to simplify the manual tasks involved in generating measurement parameters such as length, distance, area, perimeter, diameter and angles. All measurements should be displayed in an interactive table and should be exported to excel to generate reports.</p>
17	Workstation	Branded main PC and additional offline PC for analysis with minimum i5/i7 processor, Windows10 Professional, minimum 1 GB Graphics card, 1 TB HDD, 24inch LED Screen full HD1080P resolution or better. 1KVA or better suitable UPS for the system
18	Note-	Microscope, Camera and Software should be of same make for having a better integration of the equipment and after sales support.
	<b>General Requirements</b>	
	Demonstration	Satisfactory performance of the instrument should be demonstrated at Institute Campus if asked for to match the instruments performance against the technical compliance sheet/Brochures submitted by Vender for authentication. (The same should be done in given timeline or else bidder may get disqualified)
	Authorized Distributor	Item must be quoted by OEM or authorized dealer only. In case of authorized dealer, a valid authorization certificate from OEM is mandatory.
	Compliance to Specifications	The supplier must provide the compliance table of his offer w.r.t above requirements point by point. In case any variations, clarifications/alternative options with technical justification shall be provided.
	Critical Spares	Supplier must also ensure the availability of critical spare for at least 7 years.
	Installation & Commissioning	Installation shall be provided free of cost at our site. Installation & Commissioning shall be the responsibility of the supplier and may be arranged through their local counterparts. After successful completion of commissioning of the equipment, the supplier shall demonstrate the functionality of system.
	Training	The supplier shall provide comprehensive onsite training for system operation along with routine maintenance requirement.
	Manuals	The supplier shall provide hard & soft copy of Operating & Maintenance manuals in English Language.
	User List	Vendor should provide user list
	Warranty	01 years from the date of successful installation.

**Sd/-**  
**(G.G. HARAKANGI)**  
**Chief Administrative Officer, Sr. Grade**