



DIRECTORATE GENERAL OF HYDROCARBONS
(Ministry of Petroleum & Natural Gas)
Plot No.2, OIDB Bhawan, Sector 73, Noida-201301
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(E-Tender Notice)

INVITATION TO BID– National Competitive Bid (Open E-Tender under Two Bid System)

Directorate General of Hydrocarbons, Noida invites Sealed Competitive Bids from indigenous bidders for “**Renovation work in DGH office**”, under two bid system (Techno-commercial bid and price bid).

The detailed e-tender document for the above is available at DGH’s website www.dghindia.gov.in and Government of India’s Public Procurement Portal <http://eprocure.gov.in/cppp/>. The prospective bidders can participate in the tender by downloading the tender document from the aforementioned website, and submit their bid online only at GOI e-bidding portal <https://eprocure.gov.in/eprocure/app> with required bid security declaration, documents, confirming the eligibility criteria, along with the other documents as stated in the e-tender document, before tender closing date and time. No physical bids will be accepted.

Bids shall be submitted by 1400 hrs on 13.01.2022.

E-Tender No.	Description of Item
MM-14/2/2021-DGH/C-5478/ENQ-208	Renovation work in DGH office

Bidders are requested to go through the complete bid documents and the eligibility criteria under the Bid Rejection Criteria, Scope of work/ Technical Specifications etc. in particular before bidding.

DIRECTORATE GENERAL OF HYDROCARBONS
MINISTRY OF PETROLEUM & NATURAL GAS
GOVERNMENT OF INDIA
NOIDA

E-TENDER NO.: MM-14/2/2021-DGH/C-5478/ENQ-208

TENDER DOCUMENT
FOR

Renovation work in DGH office

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**Directorate General of Hydrocarbons
Ministry of Petroleum & Natural Gas
Govt. of India**

Phone No : (+91)-120-2472000	Office of : Director General (DGH)
Tele Fax : (+91)-120-2472049	OIDB Bhawan, Tower A, Plot No. 2, Sector – 73, NOIDA-201301, INDIA

FORWARDING LETTER

To,

Sub: Open Indigenous Competitive Basis e-tender for “Renovation work in DGH office”.

Dear Sir,

Open Indigenous Competitive Basis tender under two bid system are invited in e-form from prospective Bidders through CPP e-bidding portal at <https://eprocure.gov.in/eprocure/app> for the above said service/work/supply/job, as per **Annexure-IV** at DGH, Noida at OIDB Bhawan. The salient features of the tender are:

1	E-Tender No.	MM-14/2/2021-DGH/C-5478/ENQ-208
2	Brief Description of the Services / Scope of Supply	Renovation work in DGH office
3	Type of Bid	National Competitive Bid: Open E-Tender under two Bid System (Techno-commercial Bid & Price Bid)
4	E-Bid and Original documents submission closing Date & Time	13/01/2022 at 14-00 hrs. (IST)
5	Place of Submission of original documents	Tender Box at Gr. Floor, Directorate General of Hydrocarbons (DGH), OIDB Bhawan, Tower A, Plot No. 2, Sector – 73, Noida -201 301, India.
6	Bid Opening Time, Date & Place	Techno-commercial bid: 1500 Hrs. (IST) on the next date of Bid Closing date and at the same address as above. Price bid: Opening time and date shall be intimated to technically qualified bidders.
7	Bid validity	90 days from bid closing date.
8	Bid Bond/ Earnest money Deposit Amount	NIL (A declaration must be submitted by the bidder as mentioned in Appendix-5)
9	Performance Guarantee to be submitted only by the successful Bidder	03% of the Total Contract value with validity 60 days beyond the duration of contract.
10	Duration of the Contract	Five (05) months from the date of LOA
11	Eligibility Criteria	As per Annexure-III of Tender document.
12	Site Visit by the prospective bidders	Up to seven (07) days before bid closing date. After that no site visit will be allowed.

13. Complete bid document can be downloaded from DGH's web site www.dghindia.gov.in and Government of India's Public Procurement Portal <http://eprocure.gov.in/cppp/>. The prospective bidders can participate in the tender by downloading the tender document from the aforementioned website, and submit their bid online only at GOI e-bidding portal <https://eprocure.gov.in/eprocure/app> with required bid security declaration, documents, confirming the eligibility criteria, along with the other documents as stated in the e-tender document, before tender closing date and time. No physical bids will be accepted.
14. Addendum/ Corrigendum, if any, to the tender documents shall be uploaded on aforementioned websites only. Hence, bidders may view the same regularly till the bid submission date.
15. Bidders must submit their bid online at Government of India's Public Procurement Portal <https://eprocure.gov.in/eprocure/app>. No physical bids will be accepted.
16. Bidders are requested to go through the complete bid documents and the eligibility criteria under the Bid Rejection Criteria, Scope of work/supply etc. in particular before bid submission.
17. Two Bid system is being followed in this tender. Bidders should take due care to submit their bids in accordance with the requirement and as per the instructions given in the tender document(s).
18. List of documents to be uploaded/submitted along with techno-commercial bid are also mentioned at Appendix-9 of Annexure-I of Bid document.
19. Bid Evaluation Criteria (BEC) shall be the basis for evaluation of bids. Prices should be quoted strictly as per Price Bid Format given.
20. DGH reserves the right to cancel the tender or reject / accept any / all bids without assigning any reason.
21. DGH expects the bidders to comply with the tender specifications, terms & conditions of the tender and submit their bid accordingly without any exceptions / deviations. Conditional bids indicating exceptions/ deviations to the tender clauses shall be rejected summarily.
22. Other details and terms/conditions are as per the following Annexure I - VII.

You are invited to submit your e-bid against the above tender.

Thanking you,

HOD (MM)
For Directorate General of Hydrocarbons

Encl: As above

INSTRUCTIONS TO BIDDERS**A. INTRODUCTION**

1.0 ELIGIBILITY AND EXPERIENCE OF THE BIDDER: - (Please refer to “Technical & Commercial Rejection Criteria at **B1 and B.2** of Bid Evaluation Criteria under **Annexure-III**).

2.0 PRE BID CONFERENCE: Not Applicable.

3.0 TRANSFER OF BIDDING DOCUMENT

The Bidding document is not transferable.

4.0 COST OF BIDDING

The bidder shall be solely liable to bear all costs and expenses associated with the preparation and submission of its bid, and DGH will in no case be held responsible or liable for payment of any costs associated with the preparation or submission of the said bids irrespective of the outcome of the bidding process as also in case the entire bidding process or part thereof is nullified/ cancelled due to any reason whatsoever.

B. THE BIDDING DOCUMENT**5.0 CONTENT OF BIDDING DOCUMENTS**

5.1 The services/scope of supply required, bidding procedures and contract terms are described in the bidding document. In addition to the Invitation for Bids, the bidding documents include:

Annexure-I : Instructions to Bidders with following Appendices.

Appendix-1 : Bid submission proforma.

Appendix-2 : Proforma of Authorization Letter for Attending Tender Opening.

Appendix-3 : Proforma Certificate on relatives of DG/Directors of DGH

Appendix-4 : Proforma for Changes/Modifications Sought by Bidders.

Appendix-5 : Bid Security declaration

Appendix-6 : Bank Guarantee for Performance Security

Appendix-7 : Undertaking / Declaration

Appendix-8 : Pre Contract Integrity Pact

Appendix-9 : List of documents to be uploaded/submitted along with techno-commercial bid

Annexure-II : General Terms & Conditions of Contract

Annexure-III: Bid Evaluation Criteria

Appendix-10 : BEC Matrix

Annexure-IV: Scope of work/service

Annexure-V : Price Schedule

Annexure-VI : Tentative layout/ Elevations/ Drawings

Annexure-VII : E-Bidding Instructions to Bidders

5.2 The bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. Failure to furnish all information required by the bidding documents will be at the bidder's risk. Tenders not complying with tender conditions and not conforming to tender specifications will result in the rejection of its bid without seeking any clarifications.

6.0 CLARIFICATION ON BID DOCUMENT

A bidder requiring any clarification of Bid Document should notify DGH in writing at the address provided in the forwarding letter. Clarifications, if any, shall in no case be sought later than **five (05) days prior** to the deadline prescribed herein for the submission of Bids. However, DGH may at its discretion provide clarifications on any relevant or crucial issue regarding the bid document and such clarifications shall not automatically cause any extensions of prescribed dates unless otherwise notified by DGH in writing within the original prescribed dates. In case no such extension of time is notified by DGH in writing then the original prescribed dates shall deem to apply.

7.0 AMENDMENT OF BID DOCUMENT

7.1 At any time prior to the deadline for submission of bids, DGH may at its own discretion and for any reason whatsoever whether at its own initiative or in response to a clarification requested by a bidder, modify the Bid Documents by the issuance of an Addendum.

7.2 The Addendum will be hoisted on DGH's website and GoI's Public Procurement Portal only and all bidders are advised to visit aforesaid websites till the bid submission date to update themselves about modifications to the Bid documents, if any, in order to submit their offer accordingly.

7.3 In order to allow the bidders reasonable time to take the amendment into account in preparing their bids, the DGH may at its discretion, extend the deadline for the submission of Bids and any such extension will be conveyed to the bidders through DGH's website.

C. PREPARATION OF BIDS

8.0 SUBMISSION OF BID

8.1 The bidders shall submit the bids electronically and sign digitally.

8.2 Tenders are invited online through Single stage and two envelope or bid systems. The first electronic envelope/bid is techno-commercial bid envelope and second electronic envelope is financial bid envelope.

8.3 The bidder shall submit Techno-Commercial & Financial bids simultaneously.

Note: Techno-Commercial bid will be evaluated first and thereafter financial bids of qualified bidders only shall be opened.

8.3.1 The techno-commercial bid electronic envelope will contain the follows:

- a. Scanned copy of the following original documents:
 - i. Bid Security declaration
 - ii. Power of attorney or authorisation, or any other document consisting of adequate proof of the ability of the signatory to bind the bidder.

- b. Bid document (without indicating price in Price format/Price schedule/ BOM/ BOQ) and corrigendum/addendum, if any.
- c. Duly signed and scanned copies of required documents as mentioned at Appendix-9.

All the uploaded documents shall be digitally signed by the authorized signatory of the bidder.

8.3.2 The Financial bid electronic envelope will contain: Scheduled of Rate/Price Schedule.

Note: Detailed instructions regarding online bid submission are available in Annexure-VI of Tender Document as “E-Tendering instructions to the bidders”.

8.4 Bidder shall submit the following original documents offline to HOD (MM) at Directorate General of Hydrocarbons office in Noida, on or before the date and time of closing of bids specified in NIT, in a properly sealed envelope:

- i) Power of Attorney for authorized signatory of the bid, or any other document consisting of adequate proof of the ability of the signatory to bind the bidder.
- ii) Any other document, if specified, in the tender.

The envelope shall bear the name of the firm, Physical documents against e-Tender No. _____, name of work and the phrase “Do Not Open Before (Due date & time of opening of tender)”

Note: The responsibility for ensuring that envelope is delivered in time would be vested with the bidder. DGH shall not be responsible if the envelope is lost/ delivered elsewhere or late.

8.5 The bid prepared by the bidder and all correspondence and documents relating to the bid exchanged by the Bidder and the DGH shall be written in English language. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the bid, the translation shall prevail. However, the said translations should be certified by some official translator.

8.6 The bid papers, duly filled in and complete in all respects shall be submitted together with requisite information and Annexures / Appendices. It shall be complete and free from ambiguity, change or interlineations.

8.7 The Bidder shall sign its bid with the exact name of the firm to whom the contract is to be issued. The bid shall be signed by a duly authorised officer and in the case of a Company, the same shall be sealed with the company seal or otherwise appropriately executed under seal.

8.8 The bidder shall clearly indicate their legal constitution and the person signing the bid shall state his capacity and also source of his ability to bind the Bidder.

8.9 Joint venture bids and consortium bids where consortium bids are specifically allowed as per attached Annexure-III:

- (a) In view of the nature of work involved as covered by the Bidding Documents, it is anticipated that some of the intending bidders may pool their resources and experiences to form Consortia/Joint Ventures. In their own interest, before forming a Consortium, the bidders/ individual constituents of the Consortium are advised to investigate the capabilities, availability of expertise and resources such as construction equipment, experienced personnel, financial soundness, past

experience and concurrent engagements of constituting partners/members of the consortium/joint venture.

- (b) In the event that the successful bidder is a joint venture formed of two or more companies, the Company requires that the parties to the joint venture accept joint and several liability for discharging all obligations under the Contract.
- (c) The tender document can be purchased in the name of any of the constituent (Leader or member) of the Consortium.
- (d) In case of Consortium bids, the bid shall be digitally signed by the leader of Consortium. The Power of Attorney from each member authorising the leader for signing and submission of Bid on behalf of individual member must accompany the Bid offer. Other members of the consortium may participate in techno-contractual discussions and sign the minutes of such discussions/meetings along with the leader. However, Integrity Pact should be signed by all the constituents of the Consortium.
- (e) Leader of the Consortium on behalf of the Consortium shall co-ordinate with DGH during the period the bid is under evaluation and also during the execution of the contract, if the same is awarded. DGH shall correspond / communicate only with the leader of a Consortium and like-wise, the leader of the Consortium only should communicate with DGH on behalf of the Consortium. No cognizance shall be given to communication received directly from other consortium members. The Leader of the Consortium shall also be responsible for resolving dispute / misunderstanding / undefined activities, if any, amongst all the constituents of the Consortium.
- (f) Any correspondence exchanged between DGH and the Leader of Consortium shall be binding on all the constituents of the Consortium. The Leader of the Consortium should confirm unconditional acceptance of primary responsibility of executing the 'Scope of Work' of the tender. This confirmation should be submitted along with the techno-commercial bid.
- (g) Contract, if awarded, shall be in the name of the Consortium clearly specifying the names of all the constituents and also mentioning that the Consortium is led by which constituent. Accordingly, SD/PBG shall be submitted in the name of the Consortium clearly specifying the names of all the constituents along with that of the leader.
- (h) In the event of award of contract to the Consortium, the contract shall be signed by each constituent of the Consortium. Alternatively, the Leader of the Consortium may sign the contract subject to submission of a Power of Attorney (duly notarized) from each constituent authorizing the Leader of the Consortium to sign the contract on behalf of the individual member of the Consortium. Irrespective of whether the Contract is signed by all the constituents of the Consortium or by the Leader of the Consortium, all the constituents of the Consortium shall be jointly and severally responsible for satisfactory execution of the contract.
- (i) Payment for work done under the contract shall be made by DGH only to the Leader of the Consortium. However, in case payment is to be made directly to each constituent corresponding to their part of the scope of work, the same shall be clearly indicated in the bid along with the constituent-wise details of the price break-up.
- (j) No alteration or modification in the constituents or composition of a Consortium shall be permitted after submission of bid and also after award of the Contract

during currency of the contract. A constituent of the Consortium shall be allowed to undertake and carry out only that activity for which that constituent has been evaluated and qualified technically.

- (k) A constituent of the Consortium shall not be permitted to participate either in an individual capacity as a bidder or as a member of another Consortium in the same tender.
- (l) Documents/details pertaining to qualification of bidder as per proforma of document attached with the bidding documents must be furnished by each partner/member of consortium/joint venture complete in all respects along with the bid clearly bringing up their experience especially in the form of work in their scope.
- (m) In case of award to the consortium, only the leader of the Consortium shall submit the PBG for the entire requisite amount of the PBG on behalf of the Consortium.

9.0 COMPLIANCE WITH THE REQUIREMENTS OF BID EVALUATION CRITERIA (BEC) AND ALL OTHER TENDER CONDITIONS:

9.1 Advice to bidders for avoiding rejection of their offers:

DGH has to finalize its purchase / contracts within a limited time schedule. Therefore, it may not be feasible for DGH to seek clarifications in respect of incomplete offers. Prospective bidders are advised to ensure that their bids are complete in all respects and conform to DGH's terms, conditions and bid evaluation criteria of the tender. Bids not complying with DGH's requirement may be rejected without seeking any clarification.

9.2 Prevailing Government guidelines regarding Tender Fee /Bid Security /Performance Security / Purchase or Price Preference shall be applicable, provided the bidder submits necessary evidence for eligibility, along with the bid.

10.0 BID PRICES

10.1 The bidders shall indicate on the attached price schedule the net unit prices (wherever applicable).

10.2 Price quoted must remain firm during its performance of the Contract and is not subject to variation on any account. All duties and taxes payable by the bidder under the Contract for which this Bidding Document is being issued, shall be included in the rates, prices and total Bid Price submitted by the bidder, and the evaluation of bid shall be made accordingly.

10.3 Prices quoted by the bidder shall be firm during the bidder's performance of the contract and not subject to variation on any account.

10.4 Bidders are not allowed to indicate any separate discount. Discount, if any, should be merged with the quoted prices. Discount of any type, indicated separately, will not be taken into account for evaluation purpose. However, in the event of such an offer, without considering discount, is found to be lowest, DGH shall avail such discount at the time of award of contract.

10.5 Concessions permissible under statutes:

Bidder, while quoting against this tender, must take cognizance of all concessions permissible under the statutes including the benefit under existing Tax Acts, failing which it will have to bear extra cost where Bidder does not avail exemptions/

concessional rates of levies. DGH will not take responsibility towards this. However, DGH may provide necessary assistance, wherever possible, in this regard.

10.5.1 Bidders may take note there would be NO customs duty exemption available for business tendered with DGH.

10.6 Income Tax Liability

The bidder will have to bear all Income Tax liability both corporate and personal tax.

10.7 GST Liability:

10.7.1 The bidder will have to bear all GST liability, as applicable except in case of services provided by Goods Transport Agency (GTA) and Services provided by a service provider from outside India not having a fixed establishment or permanent address in India as prescribed under GST Law (amended from time to time)

10.7.2 The Bidder should quote the applicable GST, clearly indicating the rate and the amount of GST included in the bid and the classification of the respective service (as per GST law) under which the GST is payable.

10.7.3 In the contracts involving multiple services or involving supply of certain goods / materials along with the services, the Bidder should give separate break-up for cost of goods and cost of various services, and accordingly quote GST as applicable for the taxable services.

10.7.4 In case the applicability of GST is not quoted explicitly in the offer by the Bidder, the offer will be considered as inclusive of all liabilities of GST. DGH will not entertain any future claim in respect of GST against such offers.

10.7.5 In case, the quoted information related to various taxes and duties subsequently proves wrong, incorrect or misleading: -

- a) DGH will have no liability to reimburse the difference in duty / tax, if the finally assessed amount is on the higher side.
- b) DGH will have the right to recover the difference in case the rate of duty / tax finally assessed is on the lower side.

10.7.6 The service provider should have a valid registration with the concerned authorities of GST and a copy of such registration certificate should be submitted along with the offer. In case the registration certificate for the quoted category of service is not available at the time of submission of offer, an undertaking should be furnished for submission of copy of requisite GSTIN certificate along with the first invoice under the contract.

10.7.7 GST on contracts for transportation of goods by road in a goods carriage (Applicable for Goods Transport where the contract is for transportation / logistics and not the service/ turnkey contracts where transportation is a part): In this case, since the liability to pay GST is on DGH as receiver of service, the Bidder shall not include GST in the quoted prices.

10.7.8 As the above statutory provisions are frequently reviewed by the Government, the bidders are advised to check the latest position in their own interest and DGH will not bear any responsibilities for incorrect assessment of statutory levies by any bidder.

11.0 PAYMENT TERMS: Refer Payment terms described at Annexure-IV.

12.0 MODE OF PAYMENT

In all cases, DGH shall make payments only through Electronic Payment mechanism (viz. NEFT/RTGS /ECS). Bidders should invariably provide the following particulars along with their offers:

1. Name & Complete Address of the Supplier / Contractor as per Bank records.

2. Name & Complete Address of the Bank with Branch details.
3. Type of Bank account (Current / Savings/Cash Credit).
4. Bank Account Number (indicate 'Core Bank Account Number', if any).
5. IFSC / NEFT Code (11-digit code) / MICR code, as applicable, alongwith a cancelled cheque leaf.
6. Permanent Account Number (PAN) under Income Tax Act;
7. GST Registration Number.
8. E-mail address of the vendor / authorized official (for receiving the updates on status of payments)."
9. Confirmation as to whether the bidder belong to the category of Micro, Small and Medium Enterprises as defined in the "Micro, Small and Medium Enterprises Development Act, 2006 (MSMEDA)". If yes, specify the category of Micro, Small or Medium Enterprises and whether the enterprise is in manufacturing or service industry, along with valid documentary evidence.
10. Any other details as required by the remitting bank.

For receiving payment through NEFT / RTGS, the bank/branch in which the bidder is having account and intends to have the payment should be either an NEFT enabled bank or SBI branch with core banking facility.

13.0 VAGUE AND INDEFINITE EXPRESSIONS

13.1 Bids qualified by vague and indefinite expressions such as "Subject to availability" etc. will not be considered.

14.0 PERIOD OF VALIDITY OF BIDS

14.1 The Bid shall be valid for **90 days** after the date of bid opening for acceptance for the period as indicated in the "Invitation for Bid" (hereinafter referred to as validity period) and shall not be withdrawn on or after the opening of bids till the expiration of the validity period or any extension agreed thereof.

14.2 In exceptional circumstances, prior to expiry of the original bid validity period, the DGH may request the bidder for a specified extension in the period of validity. The requests and the responses shall be made in writing. The Bidder will undertake not to vary/modify the bid during the validity period or any extension agreed thereof.

15.0 BID SECURITY: A declaration as mentioned in Appendix-5 must be submitted in this regard.

16.0 e-MAIL / e-BIDS CONTAINING SCANNED SIGNATURE:

Bids received in email or e-bids with scanned signature will not be considered.

d. SUBMISSION AND OPENING OF BIDS

17.0 SEALING AND MARKING OF BIDS.

17.1 Offers are to be submitted in electronically. The first electronic cover/envelope will contain Techno-Commercial bids having all details but with price column blanked out. **However a tick mark (✓) shall be provided against each item of the price bid format to indicate that there is a quote against this item in the Price bid.** The second sealed electronic cover/envelope will contain only the price schedule duly filled in and digitally signed.

Physical documents as mentioned in the bid document must be reached at DGH office before bid closing date and time.

17.2 DGH reserves the right to ignore any offer which fails to comply with the above instructions.

17.3 DGH will not be held responsible for any loss or late received of e-bid due to server problem and others.

17.4 DGH will not be held responsible for the loss of or for the delay in postal transit.

18.0 DEADLINE FOR SUBMISSION OF BIDS

18.1 The e-bid must be received by the DGH electronically not later than **1400 Hrs** (IST) on the notified date of closing of the tender. Required original documents, as mentioned at 8.4 of Annexure-I, must be reached before the tender closing date and hours at the following address:

**HOD (MM)
Directorate General of Hydrocarbons
OIDB Bhawan,
Tower A, Plot No.2, Sector-73,
NOIDA-201301**

Original documents sent by hand delivery should be put in the Tender Box at the specified office not later than **1400 Hrs.** (IST) on the specified date. **Original documents received by post without proper superscription of Physical Documents against Tender number _____, Bid Closing Date and other details on the outer envelope will be opened in DGH office as ordinary mail and may not be considered.**

19.0 LATE BIDS

19.1 Bidders are advised in their own interest to ensure that e-bid and required physical documents against tender must reach the specified office well before the closing date and time of the bid.

19.2 Physical documents received after closing date and time of the bid, will be rejected and returned unopened.

20.0 MODIFICATION AND WITHDRAWAL OF BIDS

20.1 No e-bid may be modified after the dead line for submission of bids.

21.0 OPENING OF BIDS

21.1 The bid will be opened at **1500 Hrs.** (IST) on the date of opening indicated in "Invitation for Bid". The Bidder or his authorized representative may be present at the time of opening of bid on the specified date, but a letter in the form annexed at **Appendix- 2** hereto must be forwarded to this office along with bid and a copy of this letter must be produced in the office by the person attending the opening of bid. Unless this letter is presented by him, he may not be allowed to attend the opening of bid.

21.2 Price Bids of the technically qualified Bidders will be opened on a specific date in presence of interested qualified bidders. Bidders will be intimated about the bid opening date in advance.

21.3 In case of unscheduled holiday on the closing/opening day of bid, the next working day will be treated as scheduled prescribed day of closing/opening of bid, the time notified remaining the same.

e. EVALUATION OF BIDS

22.0 EVALUATION AND COMPARISON OF BIDS

22.1 Evaluation and comparison of bids will be done as per provisions of Bid Evaluation Criteria at **Annexure-III**.

23.0 UNSOLICITED POST TENDER MODIFICATIONS

Unsolicited post-tender modification will lead to straight away rejection of the offer.

24.0 EXAMINATION OF BID

24.1 The DGH will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed and whether the bids are generally in order.

24.2 DGH will determine the conformity of each bid to the bidding documents. Bids falling under the purview of “Rejection Criteria” of the bid Evaluation Criteria of the bidding document will be rejected.

25.0 SPECIFICATIONS

25.1 The Bidder must note that its Bid will be rejected in case the tender stipulations are not complied with strictly or the services offered do not conform to the required specifications indicated therein. The lowest Bid will be determined from among those Bids which are in full conformity with the required specifications.

f. AWARD OF CONTRACT

26.0 AWARD CRITERIA

DGH will award the Contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

27.0 DGH'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS.

27.1 DGH reserves the right to reject, accept or prefer any bid and to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the ground for DGH's action. The DGH also reserves to itself the right to accept any bid in part or split the order between two or more bidders.

28.0 NOTIFICATION OF AWARD (NOA)

28.1 Prior to the expiration of the period of bid validity, DGH will notify the successful bidder in writing that its bid has been accepted.

28.2 The notification of award will constitute the formation of the contract.

28.3 Upon the successful bidder's furnishing performance security, pursuant to clause 30, the Purchaser will promptly notify each unsuccessful bidder and discharge their bid securities.

29.0 PERFORMANCE SECURITY:

29.1 Successful bidder shall submit the performance security, 03% of Total contract value with validity 02 months beyond the duration of contract, within 21 days of

placement of Letter of Award (LoA)/ Notification of Award (NoA). The successful bidder shall furnish to DGH the Performance Security for an amount specified above or the amount mentioned in Letter of Award, issued by DGH to Contractor awarding the contract, as per **Appendix-6** in the form of Bank Guarantee (BG) from any Nationalised / Scheduled Bank in India. Bank Guarantees issued by Banks should be on non-judicial stamp paper of requisite value, as per Indian Stamp Act, purchased in the name of the Banker.

29.2 The performance security specified above must be valid as per time period mentioned above at 29.1, to cover the performance and obligations indicated under General Terms & Conditions/contract. The same will be discharged by DGH not later than 30 days following its expiry. In the event of any extension of the Contract period, Bank Guarantee should be extended by Contractor by the period equivalent to the extended period.

29.3 The performance security shall be payable to DGH as compensation for any loss resulting from Contractor's failure to fulfil its obligations under the Contract.

29.4 The Performance Security will not accrue any interest during its period of validity or extended validity.

30.0 SUBMISSION OF FORGED DOCUMENTS:

Bidders should note that DGH may verify authenticity of all the documents/certificate/information submitted by the bidder(s) against the tender. In case at any stage of tendering process or Contract/PO execution etc., if it is established that bidder has submitted forged documents/certificates/information towards fulfilment of any of the tender/contract conditions, DGH shall immediately reject the bid of such bidder(s) or cancel/terminate the contract and forfeit EMD/SD submitted by the bidder.

31.0 GUIDELINES FOR ELIGIBILITY OF A 'BIDDER FROM A COUNTRY WHICH SHARES A LAND BORDER WITH INDIA':

(Order (Public Procurement No. 1) dated 23.07.2020, Order (Public Procurement No. 2) dated 23.07.2020 and Order (Public Procurement No. 3) dated 24.07.2020 issued by Department of Expenditure, Ministry of Finance, Govt, of India in this regard are available at website <https://doe.gov.in/procurement-policy-divisions>)

- 1) Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.
[Competent Authority for the purpose of registration shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT), as mentioned under Annex I of the Order (Public Procurement No.1) dated 23.07.2020]
- 2) "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency, branch or office controlled by such person, participating in a procurement process.
- 3) "Bidder from a country which-shares a land border with India" for the purpose of this Order means:
 - a. An entity incorporated, established or registered in such a country; or
 - b. A subsidiary of an entity incorporated, established or registered in such a country;
or

- c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - d. An entity *whose beneficial owner* is situated in such a country; or
 - e. An Indian (or other) agent of such an entity; or
 - f. A natural person who is a citizen of such a country; or
 - g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.
- 4) The *beneficial owner* for the purpose of (3) above will be as under:
- (i) In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person (s), has a controlling ownership interest or who exercises control through other means.

Explanation-

- a. "Controlling ownership interest" means ownership of or entitlement to, more than twenty-five per cent, of shares or capital or profits of the company;
 - b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholder's agreements or voting agreements;
- (ii) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than **fifteen percent** of capital or profits of the partnership;
 - (iii) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
 - (iv) Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
 - (v) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
- 5) An Agent is a person employed to do any act for another, or to represent another in dealings with third person.
- 6) **CERTIFICATE REGARDING COMPLIANCE:**
- a) Bidders shall submit following certificate:

"We have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. We certify that bidder M/s. _____ (name of the bidder) is not from such a country or if from such a country, has been registered with the Competent Authority. We hereby certify that bidder M/s. _____ (Name of bidder) fulfils all the requirement in this regard and is eligible to be considered against the tender."

[wherever applicable bidder must submit evidence of valid registration by Competent Authority]

- b) The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority. Bidder shall submit the following certificate in this regard:

“We have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries. We certify that bidder M/s. _____(Name of bidder) will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.”

[wherever applicable bidder must submit evidence of valid registration by Competent Authority]

If such certificate (as mentioned as (a) & (b) above) given by a bidder whose bid is accepted, is found to be false, this would be a ground for immediate rejection of bid/termination of contract and forfeiture of EMD/Security Deposit.

The above certificate shall form part of PO/contract.

The registration, wherever applicable, should be valid at the time of submission of bids and at the time of acceptance of bids. If the bidder was validly registered at the time of acceptance / placement of order, registration shall not be a relevant consideration during contract execution.

- 7) Further, the above guidelines will not apply to bidders from those countries (even if sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects. Updated lists of countries to which lines of credit have been extended or in which development projects are undertaken are given in the website of the Ministry of External Affairs, Govt. of India.
- 8) ‘Agent’ mentioned in the above guidelines also includes dealer/distributor/sole selling agent.

32.0 SIGNING OF CONTRACT:

At the same time as Purchaser notifies the successful Bidder that its bid has been accepted, the Purchaser will send the Bidder the contract/supply order in duplicate. The contract against this tender will be governed in accordance with the General Terms & Conditions of Contract at **Annexure-II**. The successful Bidder will return one copy of the supply order/contract duly signed on each page as token of confirmation/acceptance.

BID SUBMISSION PERFORMA

Tender No..... Bidder's Address:

Telephone No :

FAX NO :

Directorate General of Hydrocarbons .
OIDB Bhawan, Tower A, Plot No. 2, Sector – 73, Noida -201 301.

Ref: Tender No. MM-14/2/2021-DGH/C-5478/ENQ-208 for “Renovation work in DGH office”.

Dear Sirs,

1. I/We hereby offer to supply the services detailed in schedule hereto or such portion thereof as you specify in the Acceptance of Tender at the price given in the said schedule and agree to hold this offer open for the period as per the Forwarding letter or till **90 days from the date of closing of bid.**

2. I/We hereby confirm that the quoted prices will remain firm for the entire contract duration.

3. I/We have understood and complied with the "Instructions to Bidders" at **Annexure-I**, "Bid Evaluation Criteria" at **Annexure-III**, and accepted the "General Terms and Conditions" at **Annexure-II** for providing services/work/job, and have thoroughly examined and complied with the Scope of Supply/Schedule of Rates etc at **Annexure-IV/V**, hereto and am/are fully aware of the nature of the service/work/job required and my/our offer is to provide services strictly in accordance with the requirements.

Yours faithfully,

Signature of
the Bidder

Name_____

Seal of the Company

Dated

Signature of witness

Address

Note: This form should be returned along with offer duly signed.

AUTHORISATION LETTER FOR ATTENDING TENDER OPENING

No. Date.....

To,
The
Directorate General of Hydrocarbons.
OIDB Bhawan, Tower A, Plot No. 2, Sector – 73, Noida -201 301,India.

Subject: Tender No.**due on**-----

Sir,

Mr..... has been authorised to be present at the time of opening of
above tender due on..... at, on my/our behalf.

Yours faithfully

Signature of Bidder

Copy to: Mr.for information and for production
before the HoD (MM) at the time of opening of bids.

PROFORMA CERTIFICATE ON RELATIVES OF DIRECTOR OF DGH

Ref: Tender No. MM-14/2/2021-DGH/C-5478/ENQ-208 for “Renovation work in DGH office”.

This has reference to our proposed contract regarding to be entered into with Directorate General of Hydrocarbons (DGH).

We certify that to the best of my/our knowledge:

- (i) I am not a relative of any DG / Director of DGH;
- (ii) We are not a firm in which a DG / Director of DGH or his relative is a partner;
- (iii) I am not a partner in a firm in which a DG / Director of DGH or his relative is a partner;
- (iv) We are not a private company in which a DG / Director of DGH is a Member or Director;
- (v) We are not a company in which DG / Directors of DGH hold more than 2 % of the paid-up share capital of our company or vice-versa.

**Authorised Signatory of
The Contracting Party**

Place...

Date...

PROFORMA FOR CHANGES/ MODIFICATIONS SOUGHT BY BIDDERS TO THE BIDDING CONDITIONS

Ref: Tender No. MM-14/2/2021-DGH/C-5478/ENQ-208 for “Renovation work in DGH office”.

DGH expects the bidders to fully accept the terms and conditions of the bidding documents. However, changes/ modifications to the terms and conditions of bidding documents, if any proposed, can be communicated in the following proforma, in case pre-bid is not held. This can be used even in cases where pre-bid is held, to inform about the proposals in advance to the pre-bid date.

Clause No. of Bidding Document	Full compliance/ not agreed	Changes/ modifications proposed by the Bidders	REMARKS

Note: If left blank, it will be construed that bidder has **not taken** any exceptions/ deviations to the terms and conditions of the bid document.

Signature of the Bidder

.....

Name.....

Seal of the Company

.....

Note: - Bids maintaining or taking exceptions/deviations beyond the bid closing date shall be rejected straightaway.

Bid Security Declaration

Ref: Tender No. MM-14/2/2021-DGH/C-5478/ENQ-208 for “Renovation work in DGH office”.

We hereby accept that if we withdraw or modify our bid during period of validity etc., we will be suspended for 02 years from the date of suspension.

Proforma of Bank Guarantee towards Performance Security

PERFORMANCE GUARANTEE

Ref. No. Bank Guarantee No.

Dated.

To,
Directorate General of Hydrocarbons,
OIDB Bhawan, Tower A, Plot No. 2, Sector – 73, Noida -201 301.

Dear Sirs,

1.1 In consideration of Directorate General of Hydrocarbons, having its Office at OIDB Bhawan, Tower A, Plot No. 2, Sector – 73, Noida -201 301, India, (hereinafter referred to as 'DGH', which expression shall, unless repugnant to the context or meaning thereof, include all its successors, administrators, executors and assignees) having entered into a CONTRACT No. _____ dated _____ (hereinafter called 'the CONTRACT' which expression shall include all the amendments thereto) with M/s _____ having its registered/head office at _____ (hereinafter referred to as the 'CONTRACTOR') which expression shall, unless repugnant to the context or meaning thereof include all its successors, administrators, executors and assignees) and DGH having agreed that the CONTRACTOR shall furnish to DGH a performance guarantee for Indian Rupees for the faithful performance of the entire CONTRACT.

1.2 We (name of the bank) _____ registered under the laws of _____ having head/registered office at _____ (hereinafter referred to as "the Bank", which expression shall, unless repugnant to the context or meaning thereof, include all its successors, administrators, executors and permitted assignees) do hereby guarantee and undertake to pay immediately on first demand in writing any /all moneys to the extent of Indian Rs (in figures) _____ (Indian Rupees (in words) _____) without any demur, reservation, contest or protest and/or without any reference to the CONTRACTOR. Any such demand made by DGH on the Bank by serving a written notice shall be conclusive and binding, without any proof, on the bank as regards the amount due and payable, notwithstanding any dispute(s) pending before any Court, Tribunal, Arbitrator or any other authority and/or any other matter or thing whatsoever, as liability under these presents being absolute and unequivocal. We agree that the guarantee herein contained shall be irrevocable and shall continue to be enforceable until it is discharged by DGH in writing. This guarantee shall not be determined, discharged or affected by the liquidation, winding up, dissolution or insolvency of the CONTRACTOR and shall remain valid, binding and operative against the bank.

1.3 The Bank also agrees that DGH at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance, without proceeding against the CONTRACTOR and notwithstanding any security or other guarantee that DGH may have in relation to the CONTRACTOR's liabilities.

1.4 The Bank further agrees that DGH shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said CONTRACT or to extend time of performance by the said CONTRACTOR(s) from time to time or to postpone for any time or from time to time exercise of any of the powers vested in DGH against the said CONTRACTOR(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we

shall not be relieved from our liability by reason of any such variation, or extension being granted to the said CONTRACTOR(s) or for any forbearance, act or omission on the part of DGH or any indulgence by DGH to the said CONTRACTOR(s) or any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

1.5 The Bank further agrees that the Guarantee herein contained shall remain in full force during the period that is taken for the performance of the CONTRACT and all dues of DGH under or by virtue of this CONTRACT have been fully paid and its claim satisfied or discharged or till DGH discharges this guarantee in writing, whichever is earlier.

1.6 This Guarantee shall not be discharged by any change in our constitution, in the constitution of DGH or that of the CONTRACTOR.

1.7 The Bank confirms that this guarantee has been issued with observance of appropriate laws of the country of issue.

1.8 The Bank also agrees that this guarantee shall be governed and construed in accordance with Indian Laws and subject to the exclusive jurisdiction of Indian Courts of the place from where the Bank Guarantee has been issued.

1.9 Notwithstanding anything contained herein above, our liability under this Guarantee is limited to Indian Rs. (in figures) _____ (Indian Rupees (in words) _____) and our guarantee shall remain in force until _____.(indicate the date of expiry of bank guarantee).

Any claim under this Guarantee must be received by us before the expiry of this Bank Guarantee. If no such claim has been received by us by the said date, the rights of DGH under this Guarantee will cease. However, if such a claim has been received by us within the said date, all the rights of DGH under this Guarantee shall be valid and shall not cease until we have satisfied that claim.

In witness whereof, the Bank through its authorised officer has set its hand and stamp on this day of20__ at

WITNESS NO. 1

(Signature)
Full name and official
address (in legible letters)
with Bank stamp

(Signature)
Full name, designation and
address (in legible letters)

Attorney as per power of
Attorney No.....
Dated

WITNESS NO. 2

(Signature)
Full name and official
address (in legible letters)

Undertakings / Declaration (To be submitted at Company's letter head)

Ref: Tender No. MM-14/2/2021-DGH/C-5478/ENQ-208 for “Renovation work in DGH office”.

1. GST Tax Registration (*strike off whichever is not applicable*)

We have submitted a copy of valid GST registration certificate under Goods and Service tax rules.

OR

We undertake to submit copy of requisite Goods and Service tax registration certificate along with the first invoice under the contract.

2. We declare that neither we, the bidders, nor any of our allied concerns, partners or associates or directors or proprietors involved in any capacity with this tender, are currently serving any banning orders issued by DGH debarring them from carrying on business dealings with DGH.
3. We hereby undertake that all the documents/ certificates / information submitted by them against the tender are genuine.

Signature of the Bidder

.....

Name.....

Seal of the Company

.....

PRE CONTRACT INTEGRITY PACT

1.0 General:

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on ____ day of the month of ____ 2020, between, on one hand, through Shri. , Head of Department (Materials Management/____) Directorate General of Hydrocarbons (hereinafter called the "BUYER", which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part and M/s_____ represented by Shri _____, Designation of person Chief Executive Officer (hereinafter called the "BIDDER/Seller" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BUYER proposes to procure (Name of the Stores/Equipment/Item) and the BIDDER/Seller is willing to offer/has offered the stores and

WHEREAS the BIDDER is a private company/public company/Government undertaking/partnership/registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a Ministry/Department of the Government of India/PSU performing its functions on behalf of the President of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to :-

Enabling the BUYER to obtain the desired said stores/equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into, this Integrity Pact and agree as follows:

2.0 Commitments of the BUYER:

2.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.

2.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.

2.3 All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

2.4 In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

3.0 Commitments of BIDDERS

The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following: -

3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organisation or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.

3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favour or dis favour to any person in relation to the contract or any other contract with, the Government.

3.3* BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.

3.4* BIDDERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.

3.5* The BIDDER further confirms and declares to the BUYER that the BIDDER is the original manufacturer/integrator/authorised government sponsored export entity of the stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.

3.6 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.

3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.

3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

3.9 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.

3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

3.11 The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.

3.12 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender.

The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.

3.13 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

4. Previous Transgression

4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.

4.2 The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. Earnest Money (Security Deposit)

5.1 While submitting commercial bid, the BIDDER shall deposit an amount ____ (to be specified in RFP) as Earnest Money/Security Deposit, with the BUYER through any of the following instruments:

- (i) Bank Draft or a Pay Order in favour of _____
- (ii) A confirmed guarantee by an Indian Nationalised Bank, promising payment of the guaranteed sum to the BUYER on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the BUYER shall be treated as conclusive proof of payment.

- (iii) Any other mode or through any other instrument (to be specified in the RFP).

5.2 The Earnest Money/Security Deposit shall be valid upto a period of five years or the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the BUYER, including warranty period, whichever is later.

5.3 In case of the successful BIDDER as per clause incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of Sanctions for Violation shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

5.4 No interest shall be payable by the BUYER to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

6. Sanctions for Violations

6.1 Any breach of the aforesaid provisions by the BIDDER or anyone employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required: -

(i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.

(ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.

(iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.

(iv) To recover all sums already paid by the BUYER, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other contract for any other stores, such outstanding payment could also be utilised to recover the aforesaid sum and interest.

(v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.

(vi) To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.

(vii) To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which may be further extended at the discretion of the BUYER.

(viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.

(ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.

(x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

6.2 The BUYER will be entitled to take all or any of the actions mentioned at para 6.1 (i) to (x) of this Pact also on the Commission by the BIDDER or anyone employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

6.3 The decision of the BUYER to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent Monitor(s) appointed for the purposes of this Pact.

7. Fall Clause

7.1 The BIDDER undertakes that it has not supplied/is not supplying similar product/service/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/service/systems or sub systems was supplied by the BIDDER to any other Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

8. Independent Monitor/s

8.1 The BUYER has appointed Independent Monitor/s (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission (Names and Addresses of the Monitors to be mentioned).

E-Mail: sivaprasadrao1950@gmail.com

(Communications can also be concurrently addressed to)

IEM Office C/o HoD(IT) -IEM Coordinator

Directorate General of Hydrocarbons, OI DB Bhawan, Tower -A, Plot No 2, Sector -73, Noida-201301.

8.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

8.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

8.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project procurement, including minutes of meetings.

8.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.

8.6 The BIDDER(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same

is applicable to Subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER Subcontractor(s) with confidentiality.

8.7 The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.

8.8 The Monitor will submit a written report to the designated Authority of BUYER/Secretary in the Department/ within 8 to 10 weeks from the date of reference or intimation to him by the BUYER / BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

9. Facilitation of Investigation

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

10. Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BUYER.

11. Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

12. Validity

12.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 5 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

12.2 Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

13. The parties hereby sign this Integrity Pact, at _____ on _____

BUYER

BIDDER

Name of the Officer.

CHIEF EXECUTIVE OFFICER

Designation

Directorate General of Hydrocarbons.

Witness

1. _____

2. _____

Witness

1. _____

2. _____

**LIST OF THE DOCUMENTS TO BE UPLOADED/SUBMITTED ALONG WITH
TECHNICAL BID**

A. List of Documents to be uploaded in Techno-commercial electronic envelope:

The tenderer shall upload the following digitally signed documents along with techno-commercial bid. Any bid not accompanying the below mentioned documents shall be liable for rejection:

1. Bid security declaration in the prescribed format as mentioned at Appendix-5 in the bid document.
2. Duly signed and scanned copy of Experience Certificate and other required documents as described at clause no. B of Annexure-III of tender document.
3. Duly signed and scanned copy of PAN Card/TAN.
4. Duly signed and scanned copy of Certificate of Incorporation/ Registration under Companies Act, 1956/ 2013 or any equivalent, as applicable.
5. Duly filled, signed and scanned copy of required Appendices (Appendix-1, 2, 3, 4, 5, 7, 8, 10 and 11) at Annexure-I, and Appendix-12, 13 and 14 of Annexure-III.
6. The power of attorney or authorization, or any other document consisting of adequate proof of the ability of the signatory to bind the bidder, in original, when the power of attorney is a special "Power of Attorney" relating to the specific tender of DGH only.

A notarized true copy of the "Power of Attorney" shall also be accepted in lieu of the original, if the power of attorney is a general "Power of Attorney". However, photocopy of such notarized true copy shall not be accepted.

7. Self-attested copy of GST registration certificate or undertaking as per Appendix-8 of Annexure-I.
8. Undertaking on the company's letter head and duly signed by the signatory of the bid that all the documents/ certificates / information submitted by them against the tender are genuine.
9. Declaration on the company's letter head and duly signed by the signatory of the bid that neither the bidders themselves, nor any of its allied concerns, partners or associates or directors or proprietors involved in any capacity, are currently serving any banning orders issued by DGH debarring them from carrying on business dealings with DGH.
10. Integrity Pact along with the bid, duly signed by the same signatory who signs the bids.

B. List of Documents to be submitted offline in original:

Power of attorney (Sr. No. 6 above) is to be submitted offline in original before tender closing date and time.

MODEL CONTRACT AND GENERAL CONDITIONS OF CONTRACT

(To be signed with the successful bidder)

This CONTRACT is made and entered into on thisday of ...Two thousand and by and between Directorate General of Hydrocarbons having its office at OIDB Bhawan, Tower A, Plot No. 2, Sector – 73, Noida -201 301, India (hereinafter referred to as DGH which expression unless repugnant to the context or meaning hereof shall include its successors, administrators, executors and assignees) on the one part and M/s, a company registered under the companies Act with its Registered office at referred to as the “CONTRACTOR” (which expression unless repugnant to the context or meaning hereof shall include its successors, administrators, executors and permitted assignees) on the other part. Whereas DGH is desirous of (Description of services) for carrying out DGH’s operations conforming to specifications as set forth in the Scope of Supply/Schedule of rates at **Annexure-IV** of this agreement. And Whereas the CONTRACTOR represents that it has the necessary experience for carrying out DGH's operations as referred to herein and has submitted a bid for providing the required services against DGH’s Tender No..... all in accordance with the terms and conditions set forth herein and any other reasonable requirements of the DGH from time to time. And Whereas DGH's has accepted the bid of the CONTRACTOR and has placed Fax order / Letter of Intent /Notification Of Award vide its letterdated.... On the CONTRACTOR. Now it is hereby agreed to by and between the parties as under:

1.0 DEFINITIONS:

Unless inconsistent with or otherwise indicated by the context, the following terms stipulated in this CONTRACT shall have the meaning as defined hereunder.

1.1 CONTRACT

Shall mean a written CONTRACT signed between DGH and the CONTRACTOR (the successful bidder) including subsequent amendments to the CONTRACT in writing thereto.

1.2 DGH:

DGH or Directorate General of Hydrocarbons., India means an organization including its successors, under the Ministry of Petroleum & Natural Gas, Government of India.

1.3 SITE:

Shall mean the place in which the services are to be carried out or places approved by the DGH for the purposes of the CONTRACT together with any other places designated in the CONTRACT as forming part of the site.

1.4 DGH’S SITE REPRESENTATIVE:

Shall mean the person or the persons appointed by DGH from time to time to act on its behalf at the site for overall co-ordination, supervision and project management at site.

1.5 CONTRACTOR:

Shall mean any person/ persons/ firm/ company etc. whose bid has been accepted by DGH and to whom work has been awarded under this contract and shall include its authorized representatives, successors and permitted assignees.

1.6 SUB-CONTRACT:

Shall mean order/ contract placed by the CONTRACTOR for any portion of the CONTRACT or work sublet with necessary written consent of DGH on third party. Such

sub-letting shall not relieve the CONTRACTOR from any of its obligation, duty or responsibility under the CONTRACT.

1.7 SUB-CONTRACTOR:

Shall mean any person or persons or firm or their legal representatives, successors, assignees to whom part of CONTRACT has been sublet by the CONTRACTOR after necessary written consent of DGH.

1.8 CONTRACTOR'S REPRESENTATIVE

Shall mean such person/or persons duly appointed representative at the site and base as the CONTRACTOR may designate in writing to the DGH as having authority to act for the CONTRACTOR in matters affecting the work and to provide the requisite services.

1.9 CONTRACT PRICE

Shall mean the sum accepted or the sum calculated in accordance with the rates accepted by DGH and amendments thereof, and shall include all fees, registration and other charges paid to statutory authorities without any liability on DGH for any of these charges. The prices will remain firm during currency of the CONTRACT unless specifically agreed to in writing by DGH.

1.10 DAY

Shall mean a calendar day of twenty-four (24) consecutive hours beginning at 0000 hours with reference to local time at the site.

1.11 EQUIPMENT/MATERIALS/GOODS:

Shall mean and include any equipment, machinery, instruments, stores, goods which CONTRACTOR is required to provide to the DGH for/under the CONTRACT and amendments thereto.

1.12 WORKS / OPERATIONS:

Shall mean all work to be performed by the CONTRACTOR as specified in the Scope of Work under this CONTRACT.

1.13 GUARANTEE:

Shall mean the period and other conditions governing the warranty/guarantee of the works as provided in the CONTRACT.

1.14 MOBILISATION:

Shall mean rendering the necessary equipment fully manned and equipped as per requirements of the CONTRACT and ready to begin work at designated site. The date and time of DGH's acceptance will be treated as the date and time of mobilisation.

1.15 DEMOBILISATION:

Shall mean the removal of all things forming part of the mobilization from the site designated by DGH. The date and time of DGH's acceptance shall be treated as the date and time of demobilization

1.16 DRAWINGS:

Shall mean and include all Engineering sketches, general arrangements/ layout drawings, sectional plans, all elevations, etc. related to the CONTRACT together with modification and revision thereto.

1.17 SPECIFICATIONS:

Shall mean and include detailed description, statements to technical data, performance characteristics, and standards (Indian as well as International) as applicable and as specified in the CONTRACT.

1.18 INSPECTORS:

Shall mean any person or outside Agency nominated by DGH to inspect equipment, materials and services, if any, in the CONTRACT stage wise as well as final as per the terms of the CONTRACT.

1.19 TESTS:

Shall mean such process or processes to be carried out by the CONTRACTOR as are prescribed in the CONTRACT considered necessary by DGH or their representative in CONTRACT to ascertain quality, workmanship, performance and efficiency of equipment or services thereof.

1.20 FACILITY:

Shall mean all property of the DGH owned or hired by DGH.

1.21 THIRD PARTY

Shall mean any group, person or persons who may be engaged in activity associated with the work specified but who shall remain at an arm's length from the work and who shall not have a direct responsibility or authority under the terms of this CONTRACT.

1.22 APPROVAL:

Shall mean and include the written consent duly signed by DGH or their representative in respect of all documents, drawings or other particulars in relation to the CONTRACT

1.23 SINGULAR/ PLURAL WORDS:

Save where the context otherwise requires, words imparting singular number shall include the plural and vice versa and words imparting neutral gender shall include masculine or feminine gender and vice versa.

1.24 GROSS NEGLIGENCE:

Shall mean any act or failure to act (whether sole, joint or concurrent) by a person or entity which was intended to cause, or which was in reckless disregard of or wanton indifference to, avoidable and harmful consequences such person or entity knew, or should have known, would result from such act or failure to act. Notwithstanding the foregoing, Gross negligence shall not include any action taken in good faith for the safeguard of life or property,

1.25 WILLFUL MISCONDUCT:

Shall mean intentional disregard of good and prudent standards of performance or proper conduct under the CONTRACT with knowledge that it is likely to result in any injury to any person or persons or loss or damage of property.

2.0 SCOPE OF SUPPLY / WORK / CONTRACT:

Scope of the SUPPLY/WORK/CONTRACT shall be as defined in the CONTRACT, specifications at **Annexure-IV**.

3.0 EFFECTIVE DATE, MOBILISATION TIME, DATE OF COMMENCEMENT OF THE CONTRACT AND DURATION OF CONTRACT:

3.1 EFFECTIVE DATE OF CONTRACT: The contract shall become effective after placement of LOA. DGH notifies the successful bidder, in writing through Letter of Awards (LOA) that it has been awarded the contract.

3.2 MOBILISATION TIME: The mobilization should be completed by Contractor within the stipulated period under the contract. Mobilization shall be deemed to be completed when contractor's equipment & manpower are placed at the nominated location in

readiness to commence Work as envisaged under the Contract duly certified by the DGH's authorized representative.

3.3 DATE OF COMMENCEMENT OF CONTRACT: The date on which mobilisation is completed shall be treated as date of commencement of Contract.

3.4 DURATION OF CONTRACT: The contract duration shall be five (05) months from the date of award of LOA.

4.0 GENERAL OBLIGATIONS OF CONTRACTOR: Contractor shall, in accordance with and subject to the terms and conditions of this Contract:

4.1 Perform the work described in the Scope of Work / Technical Specifications (**Annexure IV**) in most competent manner both technically & systematically and also in economic and cost effective manner.

4.2 Except as otherwise provided in the Terms of Reference and the special Conditions of the contract provide all manpower as required to perform the work.

4.3 Perform all other obligations, work and services which are required by the terms of this contract or which reasonably can be implied from such terms as being necessary for the successful and timely completion of the work.

4.4 Contractor shall be deemed to have satisfied himself before submitting his bid as to the correctness and sufficiency of its bid for the services required and of the rates and prices quoted, which rates and prices shall, except insofar as otherwise provided, cover all its obligations under the contract.

4.5 Contractor shall give or provide all necessary supervision during the performance of the services and as long thereafter within the warranty period as DGH may consider necessary for the proper fulfilling of Contractor's obligations under the contract.

5.0 GENERAL OBLIGATIONS OF DGH: DGH shall, in accordance with and subject to the terms and conditions of this contract:

5.1 Pay Contractor in accordance with terms and conditions of the contract.

5.2 Allow Contractor and his personnel access, subject to normal security and safety procedures, to all areas as required for orderly performance of the work.

5.3 Perform all other obligations required of DGH by the terms of the contract.

6.0 PERSONNEL TO BE DEPLOYED BY CONTRACTOR

6.1 Contractor warrants that they will provide competent, qualified and sufficiently experienced personnel to perform the work correctly and efficiently and shall ensure that such personnel observe applicable DGH and statutory safety requirement. Upon DGH's written request, Contractor, entirely at their own expense, shall remove immediately, from assignment to the work, any personnel of the Contractor determined by the DGH to be unsuitable and shall promptly replace such personnel with personnel acceptable to the DGH without affecting DGH's work. The replacement key personnel must have the requisite qualification and experience as per Scope of Work / Technical Specifications (**Annexure -IV**) and shall submit their credentials along with their recent photographs to DGH for approval of DGH.

6.0 The Contractor shall be solely responsible throughout the period of this contract for providing all requirements of their personnel including but not limited to their transportation to & fro Noida/field site, enroute/local boarding, lodging, medical attention etc. DGH shall have no liability or responsibility in this regard.

6.1 Contractor's key personnel shall be fluent in English language (both writing and speaking).

7.0 WARRANTY AND REMEDY OF DEFECTS

7.1 Contractor warrants that they shall perform the work in a first class, workmanlike, and professional manner and in accordance with the highest degree of quality, efficiency and current state of the art technology/oil field practices and in conformity with all specifications, standards and drawings set forth or referred to in the Scope of Work / Terms of Reference and with instructions and guidance which DGH may, from time to time, furnish to the Contractor.

7.2 Should DGH discover at any time during the tenure of the Contract or within 3 (three) months after completion of the operations that the Work does not conform to the foregoing warranty, Contractor shall after receipt of notice from DGH, promptly perform any and all corrective work required to make the services conform to the Warranty. Such corrective Work shall be performed entirely at Contractor's own expenses. If such corrective Work is not performed within a reasonable time, DGH, at its option may have such remedial Work performed by others and charge the cost thereof to Contractor which the Contractor must pay promptly. In case Contractor fails to perform remedial work, or pay promptly in respect thereof, the performance security shall be forfeited.

8.0 NOTICES AND ADDRESSES:

For the purposes of this CONTRACT, the addresses of the parties will be as follows and all correspondence and notices in relations to the present CONTRACT sent to the parties at the addresses mentioned below shall be deemed to be sufficient service of notice on the parties. All such notices as will as reports, invoices and other relevant material shall be addressed to the parties as per the address given below:

8.1 Directorate general of Hydrocarbons

(a) For CONTRACT related communication: HOD (MM), Directorate General of Hydrocarbons, OIDB Bhawan, Tower A, Plot No. 2, Sector – 73, Noida -201 301, India. Fax : +91 120 2472049.

(b) For reports: HOD (HR & Admin)/ HOD (IT), Directorate General of Hydrocarbons, OIDB Bhawan, Tower A, Plot No. 2, Sector – 73, Noida -201 301, India. Fax : +91 120 2472049

8.2 CONTRACTOR'S REGISTERED OFFICE AND ADDRESS

..... Fax:.....

9.0 DUTIES AND POWER /AUTHORITY:

9.1 The duties and authorities of the DGH's site representative are to act on behalf of the DGH for:

- i. Overall supervision, co-ordination and Project Management at site
- ii. Proper utilization of equipment and services.
- iii. Monitoring of performance and progress
- iv. Commenting/ countersigning on reports made by the CONTRACTOR's representative at site in respect of works, receipts, consumption etc. after satisfying himself with the facts of the respective cases.
- v. He shall have the authority, but not obligation at all times and any time to inspect/test/examine/ verify any equipment machinery, instruments, tools, materials, personnel, procedures and reports etc. directly or indirectly pertaining to the execution of the work. However this shall not construe to imply an acceptance by the inspector.

Hence, the overall responsibility of quality of work shall rest solely with the CONTRACTOR.

vi. Each and every document emerging from site in support of any claim by the contractor has to have the countersignature/ comments of the DGH's representative/engineer without which no claim will be entertained by the DGH.

9.2 CONTRACTOR's representative:

- i. The CONTRACTOR's representative shall have all the powers requisite for the performance of the works.
- ii. He shall liaise with DGH's representative for the proper co-ordination and timely completion of the works and on any matter pertaining to the works.
- iii. He will extend full co-operation to DGH's representative/inspector in the manner required by them for supervision/inspection/observation of equipment, material, procedures, performance, reports and records pertaining to works.
- iv. To have complete charge of CONTRACTOR's personnel engaged in the performance of the work and to ensure compliance of rules and regulations and safety practice.

10.0 CONTRACT DOCUMENT:

10.1 Governing language:

The governing language for the CONTRACT shall be English. All CONTRACT documents and all correspondence and communication to be given and all other documentation to be prepared and supplied under the CONTRACT shall be written in English and the CONTRACT shall be construed and interpreted in accordance with English language.

10.2 Entire Agreement:

The CONTRACT constitutes the entire agreement between the DGH and the CONTRACTOR with respect to the subject matter of the CONTRACT and supersedes all communication, negotiations and agreement (whether written or oral) of the parties with respect thereto made prior to the date of this agreement. The right of either party to require strict performances will not be affected by any previous waiver or course of dealing. Neither this Agreement nor any modification will be binding on a party unless signed by an authorised representative of CONTRACTOR and DGH.

10.3 Modification in CONTRACT:

All modifications leading to changes in the CONTRACT with respect to technical and/or commercial aspects, including terms of delivery, shall be considered valid only when accepted in writing by DGH by issuing amendment to the CONTRACT. DGH shall not be bound by any printed conditions, provisions in the CONTRACTOR's BID, forms of acknowledgement of CONTRACT, invoice, packing list and other documents which purport to impose any condition at variance with or supplement to CONTRACT.

10.4 Assignment:

The CONTRACTOR shall not, save with the previous consent in writing of the DGH, sublet/SUB-CONTRACT, transfer or assign the CONTRACT or any part thereof in any manner whatsoever. However, such consent shall not relieve the CONTRACTOR from any obligation, duty or responsibility under the CONTRACT and CONTRACTOR shall be fully responsible for the services hereunder and for the execution and performance of the CONTRACT.

10.5 Waivers and amendments:

Waivers: - It is fully understood and agreed that none of the terms and conditions of this CONTRACT shall be deemed waived by either party unless such waiver is executed in writing only by the duly authorised agents or representative of both the parties. The failure of either party to execute any right shall not act as a waiver of such right by such party. Amendments: - It is agreed that CONTRACTOR shall carry out work in accordance

with the completion program to be furnished by the DGH which may be amended from time to time by reasonable modifications as DGH deems fit.

11.0 REMUNERATION AND TERMS OF PAYMENT

11.1 DGH shall pay to CONTRACTOR for the services/supply, to be provided by the CONTRACTOR as per the Scope of supply (**Annexure-IV**). The rates payable shall be firm during the entire CONTRACT period, including extension period, if any.

11.2 All Bills along with relevant supporting documents shall be submitted in triplicate to the addressee at **8.1 (a)** above.

11.3 Clear (undisputed) invoices with original supporting documents duly countersigned by DGH's representative/ engineer wherever applicable will be submitted at the end of satisfactory completion of Works / Services / Project by the CONTRACTOR to DGH and payment shall be made within 30 (thirty) calendar days from the date of receipt of invoice at the above office (Unless otherwise specified in the Special Conditions of the Contract)

The original invoice should also accompany the following documents/ details: 1) Along with invoice: Following documents / details should be invariably furnished along with the invoice:

- a) Copy of valid registration certificate under the GST Tax rules.
- b) Particulars required for making payments through 'Electronic Payment Mechanism', in accordance with the clause on 'MODE OF PAYMENT' appearing in **Annexure-I** (i.e. 'Instructions to bidders') of bid document.
- c) Invoice (i.e. Tax invoice as per relevant GST rules, in original and duplicate, clearly indicating GST Tax registration number, Rate and amount of GST shown separately).
- d) Insurance policies and proof of payment of premium (As applicable).
- e) Details of statutory payments like PF, ESI, EPF etc. (As applicable).
- f) Undertaking by the contractor regarding compliance of all statutes.
- g) Documentary evidence of payment of Customs duty, where applicable.
- h) Any other document specifically mentioned in the Contract, or supporting documents in respect of other claims (if any), permissible under the Contract.

In addition to the said particulars submitted alongwith the bid, the CONTRACTOR should also provide any other information as may be required for determining the taxability of the amount to be remitted to the non-resident. Further, the CONTRACTOR shall be liable to intimate the subsequent changes (if any) to the information submitted against any of the said particulars, alongwith full details.

11.4 In the event of any dispute in a portion or whole of any invoice, DGH shall make payment of undisputed portion and shall promptly notify the CONTRACTOR's representative in writing for the remaining portion in CONTRACT to mutually resolve the dispute and if resolved in part or full, payment shall be made to the CONTRACTOR within 30 days of such settlement.

11.5 DGH's right to question the amounts claimed

Payment of any invoice shall not prejudice the right of the DGH to question the allowability under this Contract of any amounts claimed therein, provided DGH, within one year beyond the expiry of each CONTRACT year, delivers to CONTRACTOR, written notice identifying any item or items which it questions and specifying the reasons therefor. Should DGH so notify CONTRACTOR, such adjustment shall be made as the parties shall agree. These provisions shall be reciprocal for similar rights to the CONTRACTOR. The CONTRACTOR shall provide on demand a complete and correct set of records pertaining to all costs for which it claims reimbursement from DGH and as to any payment provided for hereunder, which is to be made on the basis of CONTRACTOR's costs.

12.0 CLAIMS, TAXES & DUTIES, FEES AND ACCOUNTING

12.1 A Claims

CONTRACTOR agrees to pay all claims, taxes and fees for equipment, labour, materials, services and supplies to be furnished by it hereunder and agrees to allow no lien or charge resulting from such claims to be fixed upon any property of DGH. DGH may, at its option, pay and discharge any liens or overdue charges for CONTRACTOR's equipment, labour, materials, services and supplies under this CONTRACT and may thereupon deduct the amount or amounts so paid from any sum due, or thereafter become due, to CONTRACTOR hereunder.

12.2 B. Notice of claims

CONTRACTOR or DGH, as the case may be, shall promptly give the other, notice in writing of any claim made or proceeding commenced for which that party is entitled to indemnification under the CONTRACT. Each party shall confer with the other concerning the defense of any such claims or proceeding, shall permit the other to be represented by counsel in defense thereof, and shall not effect settlement of or compromise any such claim or proceeding without the other's written consent.

12.3 Taxes

CONTRACTOR, unless specified otherwise in the CONTRACT, shall bear all tax liabilities, duties, Govt. levies etc. including Corporate and Personnel Taxes levied or imposed on the CONTRACTOR on account of payments received by it from the DGH for the work done under this CONTRACT. It shall be the responsibility of the CONTRACTOR to submit to the concerned Indian authorities, the returns and all other concerned documents required for this purpose and to comply in all respects with the requirements of the laws in this regard, in time.

12.4 Personnel taxes

The CONTRACTOR shall bear all personnel taxes levied or imposed on its personnel, SUB-CONTRACTOR's personnel, vendors, consultants etc. on account of payment received under this CONTRACT. Tax shall be deducted at source as per Indian Tax Laws.

12.5 Corporate taxes

The CONTRACTOR shall bear all Corporate taxes, levied or imposed on the CONTRACTOR on account of payments received by it from the DGH for the work done under this CONTRACT.

12.6 If it is so required by the applicable laws in force at the time of payment, DGH shall withhold from the amount due to the CONTRACTOR and pay to the Indian Tax authorities any tax levied or assessed on account of the CONTRACTOR's operations pursuant to this CONTRACT.

12.7 It is noted that CONTRACT u/s 195 (2) of the Income Tax Act, 1961 for the purpose of deduction of tax at source will be obtained by DGH from the concerned Income Tax authorities in India.

12.8 For the lapse, if any on the part of the CONTRACTOR and consequential penal action taken by the Tax department, the DGH shall not take any responsibility whether financial or otherwise.

13.0 PERFORMANCE

The CONTRACTOR shall undertake to perform all services under this CONTRACT with all-reasonable skill, diligence and care in accordance with sound industry practice to the satisfaction of the DGH and accept full responsibility for the satisfactory quality of such services as performed by them. Any defect, deficiencies noticed in the CONTRACTOR's service will be promptly remedied by the CONTRACTOR within 7 days upon the receipt of

written notice from the DGH to improve their performance failing which the DGH may terminate the CONTRACT by giving the CONTRACTOR **14 (fourteen)** days written notice.

14.0 PERFORMANCE BOND

14.1 The Contractor shall furnish to DGH a Bank Guarantee No. _____ dated _____ issued by _____ for _____ (03 % of Total contract value) to be submitted within 21 days of the placement of Letter of Award (LoA)/ Notification of Award (NoA) valid till 02 months beyond the warranty period towards performance under this CONTRACT. In the event of any extension of the Contract period, Bank Guarantee should be extended by the period equivalent to the extended period of the contract. The bank guarantee will be discharged by DGH not later than 30 days following its expiry.

14.2 In the event CONTRACTOR fails to honour any of the commitments entered into under this agreement and /or in respect of any amount due from the CONTRACTOR to the DGH, the DGH shall have unconditional option under the guarantee to invoke the above bank guarantee and claim the amount from the bank. The bank shall be obliged to pay the amount to the DGH on demand.

15.0 DISCIPLINE

CONTRACTOR shall carry out operations hereunder with due diligence and in a safe and workman like manner according to good international oilfield practice. CONTRACTOR shall maintain strict discipline and good CONTRACT among its employees and its SUB-CONTRACTOR's employees and shall abide by and conform to all rules and regulations promulgated by the DGH governing the operations. Should DGH feel that the conduct of any of CONTRACTOR/SUB-CONTRACTOR's employees is detrimental to DGH's interest, the DGH shall have the unqualified right to request for the removal of such employee either for incompetence, unreliability, misbehavior, security reasons etc. while on or off the job. The CONTRACTOR shall comply with any such request to remove such personnel at CONTRACTOR's expense unconditionally. The CONTRACTOR will be allowed a maximum of 7 (seven) working days to replace the person by competent qualified person at CONTRACTOR's cost.

16.0 SAFETY AND LABOUR LAWS

CONTRACTOR shall comply with the provision of all laws including Labour Laws, rules, regulations and notifications issued thereunder from time to time. All safety and labour laws enforced by statutory agencies and by DGH shall be applicable in the performance of this CONTRACT and CONTRACTOR shall abide by these laws. CONTRACTOR shall take all measures necessary or proper to protect the personnel, work and facilities and shall observe all reasonable safety rules and instructions. DGH's employee also shall comply with safety procedures/policy. The CONTRACTOR shall report as soon as possible any evidence which may indicate or is likely to lead to an abnormal or dangerous situation and shall take all necessary emergency control steps to avoid such abnormal situations.

16.1 Verification of character and antecedents of Contractual Manpower

In all contracts involving deployment of Contractor's manpower within DGH's premises like plants, offices, installations, rigs, stock yards etc., the Contractor shall submit the following documents to DGH prior to start of work:

- (i) Undertaking from the Contractor that the character and antecedents of the person(s) proposed to be deployed by them is/are impeccable.
- (ii) Undertaking from the Contractor that they have scrutinized the previous working of the person(s) proposed to be deployed by them and there is nothing adverse as regards his/her character and antecedent.

(iii) Along with the above mentioned undertakings, the Contractor will provide certified photocopies of Police verification certificates in respect of persons proposed to be deployed by them, for inspection by the authorized representative of DGH. The Contractor has to obtain Police verification report (signed by an officer equivalent to DSP rank of higher) from the area where the person(s) to be deployed has/have been residing since the last five years. In case the person concerned has not resided at a place for five years at a stretch, Police verification reports should be obtained from that area where the person(s) has/ have stayed earlier during the last five years.

17.0 SECRECY

CONTRACTOR shall during the tenure of the CONTRACT and at anytime thereafter maintain in the strictest confidence all information relating to the work and shall not, unless so authorised in writing by DGH, divulge or grant access to any information about the work or its results and shall prevent anyone becoming acquainted with either through CONTRACTOR or its personnel or authorised SUB-Contractors or agents. CONTRACTOR shall not avail of the information obtained in the course of work hereunder in any manner, whatsoever, nor shall CONTRACTOR divulge any information about the location of the work area of part thereof. CONTRACTOR shall not also destroy any report, note and technical data relating to the work and not required by the DGH. The obligation is continuing one and shall survive after the completion/ termination of this agreement.

18.0 STATUTORY REQUIREMENTS

During the tenure of this CONTRACT nothing shall be done by the CONTRACTOR in contravention of any law, act and/or rules/regulations, thereunder or any amendment thereof governing interalia customs stowaways, foreign exchange etc.

19.0 INSURANCE

- a. CONTRACTOR shall, at his own expense, arrange appropriate insurance to cover all risks assumed by the CONTRACTOR under this CONTRACT in respect of its personnel deputed under this CONTRACT as well as CONTRACTOR's equipment, tools and any other belongings of the CONTRACTOR or their personnel during the entire period of their engagement in connection with this CONTRACT. DGH will have no liability on this account.
- b. Waiver of subrogation: All insurance policies of the CONTRACTOR with respect to the operations conducted hereunder as set forth in **clause 16** hereof, shall be endorsed by the underwriter in accordance with the following policy wording:-

“The insurers hereby waive their rights of subrogation against any individual, DGH, affiliates or assignees for whom or with whom the assured may be operating to the extent of the Contractual indemnities undertaken by the CONTRACTOR”.

- c. Certificate of Insurance: Before commencing performance of the CONTRACT, CONTRACTOR shall upon request furnish DGH with certificates of insurance indicating (1) kinds and amounts of insurance as required herein (2) insurance corporation or companies carrying the aforesaid coverage (3) effective and expiry dates of policies (4) that DGH shall be given thirty (30) days written advance notice of any material change in the policy (5) waiver of subrogation endorsement has been attached to all policies and (6) the territorial limits of all policies. If any of the above policy expire or/ are cancelled during the term of this CONTRACT and CONTRACTOR fails for any reason to renew such policies, then DGH may replace same and charge the cost thereof to CONTRACTOR. Should there be lapse in any insurance required to be carried out by CONTRACTOR hereunder for any reason, losses resulting therefrom shall be to the sole account of the CONTRACTOR. Such insurance shall be effected within Insurance Company incorporated and registered in

India or jointly with a Company of International repute and an Insurance Company incorporated and registered in India.

- d. Deductible: That portion of any loss not covered by insurance provided for in this article solely by reason of deductible provision in such insurance policies shall be to the account of the CONTRACTOR.
- e. CONTRACTOR shall require all of its SUB-Contractors to provide such of the foregoing insurance cover as the CONTRACTOR is obligated to provide under this CONTRACT.

20.0 INDEMNITY AGREEMENT

20.1 INDEMNITY BY CONTRACTOR

Unless otherwise specified elsewhere in this CONTRACT, CONTRACTOR shall indemnify and keep indemnified DGH, its CONTRACTORS (other than the CONTRACTOR) and/or sub-CONTRACTORS and its/their employees from all actions, proceedings, suits, claims, demands, liabilities, damages, losses, costs, charges, expenses (including without limitation, wreck or debris, removal costs, where wreck or debris removal is ordered by a competent authority) judgments and fines arising out of or in the course of or caused by the execution of work under the CONTRACT or other obligations hereunder directly or indirectly associated herewith and or arising from :

a) personal injury, illness or death of :

(i) any of CONTRACTOR's or subCONTRACTOR's personnel (even if caused by or contributed to by the negligence or fault of DGH); and

(ii) subject to clause **20.2 (a) (i)** any other person to the extent the injury, illness or death is caused by the negligence or fault of the CONTRACTOR or CONTRACTOR's personnel or subCONTRACTORS or subCONTRACTOR's personnel and

b) loss or damage to :

(i) any property owned, hired or supplied by CONTRACTOR or CONTRACTOR's personnel or subCONTRACTORS or subCONTRACTOR's personnel including Constructional Plant (even if caused by, or contributed to by, the negligence or fault of DGH); or

(ii) subject to clause **20.2 (b) (i)** any other property to the extent the loss or damage is caused by the negligence or fault of the CONTRACTOR or CONTRACTOR's personnel or subCONTRACTORS or subCONTRACTOR's personnel.

20.2 Indemnity by DGH:

Unless otherwise specified elsewhere in this CONTRACT, DGH shall indemnify and keep indemnified CONTRACTOR (which expression in this clause includes, unless the context otherwise requires. SubCONTRACTORS of any tier and their employees) from all actions, proceedings, suits, claims, demands, liabilities, damages, losses, costs, charges, expenses and fines arising from :

a) personal injury, illness or death of

(i) any employee of the DGH (even if caused by or contributed to by the negligence or fault of CONTRACTOR);

(ii) subject to clause **20.1 (a) (i)** any other person to the extent that the injury, illness or death is caused by the negligence or fault of DGH ; and

b) any loss or damage to :

(i) any property owned, hired or supplied by DGH (even if caused by or contributed to by the negligence or fault of CONTRACTOR); except to the extent that such property is in the care or custody of CONTRACTOR in connection with the work under the CONTRACT.

(ii) Subject to clause **20.1 (b) (i)** any loss or damage to any other property to the extent the loss or damage is caused by the negligence or fault of DGH.

21.0 TERMINATION

21.1 Termination on expiry of the CONTRACT

This Agreement shall be deemed to have been automatically terminated on the expiry of the CONTRACT period unless the DGH has exercised its option to extend this CONTRACT in accordance with the provisions, if any, of this CONTRACT.

21.2 Termination on account of force majeure

Either party shall have the right to terminate this CONTRACT on account of Force Majeure, as set forth in **clause 25**.

21.3 Termination on account of insolvency

In the event the CONTRACTOR or its collaborator at any time during the term of this Agreement becomes insolvent or makes a voluntary assignment of its assets for the benefit of creditors or is adjudged bankrupt, then the DGH shall, by a notice in Writing have the right to terminate this CONTRACT and all the CONTRACTOR's rights and privileges hereunder, shall stand terminated forthwith.

21.4 Termination for unsatisfactory performance

If the DGH considers that the performance of the CONTRACTOR is unsatisfactory or, not up to the expected standard, the DGH shall notify the CONTRACTOR in writing and specify in detail the cause of such dissatisfaction. The DGH shall have the option to terminate this Agreement by giving **14 days'** notice in writing to the CONTRACTOR, if, CONTRACTOR fails to comply with the requisitions contained in the said written notice issued by the DGH.

21.5 Termination for delay in mobilisation

Successful bidder shall be required to mobilise complete equipment along with crew for commencement of services at the specified site within the time period stipulated in the Forwarding Letter of this Bid Document. If the CONTRACTOR (successful bidder) fails to mobilise as above, DGH shall have, without prejudice to any other clause of the CONTRACT, the right to terminate the contract.

21.6 If at any time during the term of the Contract, breakdown of Contractor's equipment results in Contractor being unable to perform their obligations hereunder for a period of 15 successive days, DGH at its option may terminate this Contract in its entirety without any further right or obligation on the part of the DGH except for the payment of money then due. No notice shall be served by the DGH under the condition stated above.

21.7 Notwithstanding any provisions herein to the contrary, the Contract may be terminated at any time by the DGH on giving 30 (thirty) days written notice to the Contractor due to any other reason not covered under the above **clause from 21.1 to 21.6** and in the event of such termination the DGH shall not be liable to pay any cost or damage to the Contractor except for payment for services as per the Contract upto the date of termination.

21.8 In the event of termination of contract, DGH will issue Notice of termination of the contract with date or event after which the contract will be terminated. The contract

shall then stand terminated and the Contractor shall demobilise their personnel & materials.

21.9 Consequences of termination

21.9.1 Upon termination of the Contract, Contractor shall return to DGH all of DGH's items, which are at the time in Contractor's possession.

21.9.2 In all cases of termination herein set forth, the obligation of the DGH to pay shall be limited to the period up to the date of termination. Notwithstanding the termination of this Agreement, the parties shall continue to be bound by the provisions of this Agreement that reasonably require some action or forbearance after such termination.

21.9.3 In case of termination of Contract herein set forth, except under **21.1, 21.2 and 21.7**, following actions shall be taken against the Contractor;

(i) DGH shall conduct an inquiry against the Contractor and consequent to the conclusion of the inquiry, if it is found that the fault is on the part of the contractor, then they shall be put on holiday [i.e. neither any tender enquiry will be issued to such a Contractor by DGH against any type of tender nor their offer will be considered by DGH against any ongoing tender(s) where contract between DGH and that particular Contractor (as a bidder) has not been concluded] for a period of two years from the date the order for putting the contractor on holiday is issued. However, the action taken by DGH for putting that contractor on holiday shall not have any effect on other contract(s), if any with that contractor which shall continue till expiry of their term(s).

(ii) Pending completion of the enquiry process for putting the Contractor on holiday, DGH shall neither issue any tender enquiry to the defaulting Contractor nor shall consider their offer in any ongoing tender.

22.0 SEVERABILITY

Should any provision of this agreement be found to be invalid, illegal or otherwise not enforceable by any court of law, such finding shall not affect the remaining provisions hereto and they shall remain binding on the parties hereto.

23.0 WITHHOLDING

23.1 DGH may at its absolute discretion withhold or nullify its obligations to pay the whole or any part of the amount due to the Contractor on account of subsequently discovered evidence of loss/ damages caused to the DGH by the contractor on account of: 23.1.1 Non-completion of contracted work to the absolute satisfaction of the DGH or its duly appointed representative/agent.

23.1.2 Contractor's un-cleared debt arising out of execution of the Contract.

23.1.3 Defective work not remedied by the Contractor.

23.1.4 Unsettled claims by any of the sub-contractor/s appointed by the Contractor or by any other third party claiming through the contractor or on the basis of any reasonable evidence indicating probable filing of such claims against the Contractor.

23.1.5 Any failure by the Contractor to fully reimburse the DGH in terms of the indemnification provisions of the Contract. Where, during the process of the work, the Contractor allows any indebtedness to accrue for which DGH may be held to be primarily or contingently liable or ultimately responsible for its discharge and where the Contractor fails to pay and discharge such indebtedness, within five days of being called

upon to do so, then DGH may during the period for which indebtedness shall remain unpaid, be entitled to with-hold a sum equal to the amount of such unpaid indebtedness. When all the above grounds for withholding payments are removed, the payments shall thereafter be made for amounts so withheld.

23.1.6 Withholding will also be effected on account of the following:-

- (i) Garnishee order issued by a Court of Law in India.
- (ii) Income tax deductible at source according to Law prevalent from time to time in the country.
- (i) Any obligation of Contractor which by any Law prevalent from time to time to be discharged by DGH in the event of Contractor's failure to adhere to such Laws.

24.0 CHANGE IN LAW

24.1 In the event of introduction of any new legislation or any change or amendment or enforcement of any Act or Law, rules or regulations of Government of India or State Government(s) or Public Body which becomes effective after the date of submission of Price Bid or revised price bid, if any, for this CONTRACT and which results in increased cost of the works under the CONTRACT through increased liability of taxes, (other than personnel and Corporate taxes), duties, the CONTRACTOR shall be indemnified for any such increased cost by the DGH subject to the production of documentary proof to the satisfaction of the DGH to the extent which directly is attributable to such introduction of new legislation or change or amendment as mentioned above and adjudication by the competent authority & the courts wherever levy of such taxes / duties are disputed by DGH.

24.2 Similarly, in the event of introduction of new legislation or any change or amendment or enforcement of any Act or Law, rules or regulations of Government of India or State Government(s) or Public Body which becomes effective after the date of submission of Price Bid or revised price bid, if any, for this CONTRACT and which results in any decrease in the cost of the works through reduced liability of taxes, (other than personnel and Corporate taxes) duties, the CONTRACTOR shall pass on the benefits of such reduced cost, taxes or duties to the DGH, to the extent which is directly attributable to such introduction of new legislation or change or amendment as mentioned above.

24.3 All duties, taxes (except where otherwise expressly provided in the Contract) as may be levied / imposed in consequences of execution of the Works/Services or in relation thereto or in connection therewith as per the Acts, Laws, Rules, Regulations in force on the date of submission of Price Bid or revised price bid, if any, for this CONTRACT shall be to CONTRACTOR's account. Any increase / decrease in such duties, taxes after the date of submission of price bid or revised price bid, if any, but within the contractual completion / mobilization date as stipulated in the CONTRACT will be to the account of DGH.

24.4 Any increase in the duties and taxes after the contractual completion / mobilization date during the extended period will be to the contractor's account, where delay in completion /mobilization period is attributable to the CONTRACTOR. However, any decrease of duties and taxes after the contractual completion / mobilization date will be to DGH's account.

24.5 The Contract Price and other prices given in the Price Format are based on the applicable tariff as indicated by the CONTRACTOR in the Price Format. In case this information subsequently proves to be wrong, incorrect or misleading, DGH will have no liability to reimburse/pay to the CONTRACTOR the excess duties, taxes, fees, if any finally levied / imposed by the concerned authorities. However, in such an event, DGH will have the right to recover the difference in case the rate of duty/tax finally assessed is on the lower side.

24.6 Notwithstanding the provision contained in clause **24.1 to 24.4** above, the DGH shall not bear any liability in respect of:

- (i) Personal taxes on the personnel deployed by CONTRACTOR, his sub-contractor / sub-sub contractors and Agents etc.
- (ii) Corporate taxes and Fringe benefit tax in respect of contractor and all of their sub-contractors, agents etc.
- (iii) Other taxes & duties including new taxes etc. in respect of sub-contractors, vendors, agents etc of the CONTRACTOR.

25.0 FORCE MAJEURE

In the event of either party being rendered unable by Force Majeure to perform any obligation required to be performed by them under the CONTRACT, the relative obligation of the party affected by such Force Majeure shall be suspended for the period during which such cause lasts. For the purpose of this contract, the term Force Majeure means any cause or event, other than the unavailability of funds, whether similar to or different from those enumerated herein, lying beyond the reasonable control of, and unanticipated or unforeseeable by, and not brought about at the instance of, the Party claiming to be affected by such event, or which, if anticipated or foreseeable, could not be avoided or provided for, and which has caused the non performance or delay in performance. Without limitation to the generality of the foregoing, the term Force Majeure shall include natural phenomenon or calamities, earth quakes, typhoons, fires, wars declared or undeclared, hostilities, invasions, blockades, riots, strikes, insurrection and civil disturbances but shall not include unavailability of funds. Upon the occurrence of such cause and upon its termination, the party alleging that it has been rendered unable as aforesaid thereby, shall notify the other party in writing, the beginning of the cause amounting to Force Majeure as also the ending of the said cause by giving notice to the other party within 72 hours of the beginning and the ending of the cause respectively. If deliveries are suspended by Force Majeure conditions lasting for more than 2 (two) months, DGH shall have the option of canceling this CONTRACT in whole or part at its discretion without any liability at its part. The Party asserting the claim of Force Majeure shall have the burden of proving that the circumstances constitute valid grounds of Force Majeure and that such party has exercised reasonable diligence and efforts to remedy the cause of any alleged Force Majeure. Time for performance of the relative obligation suspended by Force Majeure shall then stand extended by the period for which such cause lasts.

26.0 EMPLOYMENT BY FIRMS TO OFFICIALS OF DGH

Firms/companies who have or had business relations with DGH are advised not to employ serving DGH employees without prior permission. It is also advised not to employ ex-personnel of DGH within the initial two years period after their retirement/resignation/severance from the service without specific permission of DGH. The DGH may decide not to deal with such firm(s) who fail to comply with the above advice.

27.0 PREFERENCE TO LOCAL COMPANIES

CONTRACTOR agrees to give priority and preference to locally owned companies, when hiring Sub CONTRACTOR, SUBJECT TO price, quality and delivery being equivalent.

28.0 JURISDICTION AND APPLICABLE LAW

This Agreement including all matters connected with this Agreement, shall be governed by the laws of India (both substantive and procedural) for the time being in force and shall be

subject to exclusive jurisdiction of the Courts at new Delhi (the place where the CONTRACT is signed in India).

29.0 SETTLEMENT OF DISPUTES AND ARBITRATION

29.1 Except as otherwise provided elsewhere in the contract, if any dispute or difference arises between the parties hereto or the respective representatives or assignees at any time in connection with operation, interpretation or out of CONTRACT or breach thereof shall be decided in accordance with Indian Arbitration and Conciliation Act, 1996 by an Arbitral Tribunal consisting of three arbitrators. Each party shall appoint one arbitrator and the Arbitrators so appointed shall appoint third arbitrator, who shall act as the presiding arbitrator.

29.2 In case a party fails to appoint an arbitrator within 30 days from the receipt of request to do so by the other party or the two arbitrators so appointed fail to agree on the appointment of the third arbitrator within 30 days of the appointment of second Arbitrator, the Chief Justice of Supreme Court/High Court as the case may be or any other person or institution designated by him within whose jurisdiction the subject CONTRACT has been made, shall appoint the arbitrator/presiding arbitrator upon request of any of the parties.

29.3 If any of the arbitrators so appointed dies, resigns, incapacitated or withdraws for any reasons from the proceedings, it shall be lawful for the concerned party/arbitrators to appoint another person in his place in the same manner as aforesaid. Such person shall proceed with the reference from the stage where his predecessor had left if both the parties agree for the same and otherwise he shall proceed de-novo.

29.4 It is agreed between the parties that the party invoking arbitration shall specify all disputes to be referred to arbitration at the time of invocation of arbitration and not thereafter.

29.5 It is also agreed between the parties that neither party to the arbitration shall be entitled to the interest on the amount of award.

29.6 The Arbitral tribunal shall give a reasoned award and the same shall be final, conclusive and binding on the parties.

29.7 The venue of the arbitration shall be New Delhi, India and shall be conducted in English language. The Courts in Delhi will have the jurisdiction to deal with such arbitration award if required.

29.8 The fees of the arbitrators shall be borne by the respective parties nominating them and the fee of the presiding arbitrator, cost and other expenses incidental to the arbitration proceedings shall be borne equally by the parties. Subject to aforesaid, the provisions of Indian Arbitration and Conciliation Act, 1996 and any statutory modification or re-enactment in lieu thereof shall apply to the arbitration proceedings under this clause.

30.0 CONTINUANCE OF THE CONTRACT

Notwithstanding the fact that settlement of dispute(s) (if any) under arbitration may be pending, the parties hereto shall continue to be governed by and perform the work in accordance with the provisions under this CONTRACT.

31.0 INTERPRETATION

The titles and headings of the sections in this CONTRACT are inserted for convenient reference only and shall not be construed and limiting or extending the meaning of any provisions of this CONTRACT.

32.0 PATENT INDEMNITY

32.1 The CONTRACTOR shall, subject to the DGH's compliance with Sub-Clause below, indemnify and hold harmless the DGH and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the DGH may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

- a) the installation of the Items by the CONTRACTOR or the use of the Items in the country where the Site is located; and
- b) the sale in any country of the products produced by the Items.

Such indemnity shall not cover any use of the Items or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Items or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the CONTRACTOR, pursuant to the Contract.

32.2 If any proceedings are brought or any claim is made against the DGH arising out of the matters referred to in GCC above Sub-Clause, the DGH shall promptly give the CONTRACTOR a notice thereof, and the CONTRACTOR may at its own expense and in the DGH's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

32.3 If the CONTRACTOR fails to notify the DGH within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the DGH shall be free to conduct the same on its own behalf.

32.4 The DGH shall, at the CONTRACTOR's request, afford all available assistance to the CONTRACTOR in conducting such proceedings or claim, and shall be reimbursed by the CONTRACTOR for all reasonable expenses incurred in so doing.

32.5 The DGH shall indemnify and hold harmless the CONTRACTOR and its employees, officers, and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the CONTRACTOR may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the DGH.

33.0 INDEPENDENT CONTRACTOR STATUS:

The CONTRACTOR shall act as an independent contractor performing the CONTRACT. The Contract does not create any agency, partnership, joint ventures or joint relationship between the parties. Subject to all compliance with the CONTRACT, the CONTRACTOR shall be solely responsible for the manner in which works are performed. All employees, representatives or sub-CONTRACTORS engaged by the CONTRACTOR in performing the CONTRACT shall be under the complete control of the CONTRACTOR and shall not be deemed to be employees of the DGH and nothing contained in the CONTRACT or in any sub-CONTRACT awarded by the CONTRACTOR shall be construed to create any contractual relationship between any such employees or representative or Sub-CONTRACTOR and the DGH. CONTRACTOR shall be responsible for the acts, defaults or negligence of the CONTRACTOR, his agencies, servant or workmen.

34.0 LIMITATION OF LIABILITY

Notwithstanding any other provisions, except only in cases of willful misconduct and / or criminal acts, a) Neither the Contractor nor DGH shall be liable to the other, whether in

Contract, tort, or otherwise, for any consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided however that this exclusion shall not apply to any obligation of the Contractor to pay Liquidated Damages to the DGH and b) Notwithstanding any other provisions incorporated elsewhere in the contract, the aggregate liability of the Contractor in respect of this contract, whether under the Contract, in tort or otherwise, shall not exceed Contract Price, provided however that this limitation shall not apply to the cost of repairing or replacing defective equipment by the Contractor, or to any obligation of the Contractor to indemnify the DGH with respect to Intellectual Property Rights. c) DGH shall indemnify and keep indemnified Contractor harmless from and against any and all claims, costs, losses and liabilities in excess of the aggregate liability amount in terms of clause (b) above.

BID EVALUATION CRITERIA

A. VITAL CRITERIA FOR ACCEPTANCE OF BIDS

Bidders are advised not to take any exception/deviations to the bid document. Still, if exceptions /deviations are maintained in the bid, such conditional/ non-conforming bids shall not be considered and shall be rejected.

B. REJECTION CRITERIA

B.1 TECHNICAL REJECTION CRITERIA:

The following vital technical conditions should be strictly complied with failing which the bid will be rejected:

- i)** The bids must conform to the Scope of Services and terms and conditions given in the Annexure-IV and Annexure-V of bid document. Bids shall be rejected in case the services offered do not conform to the required parameters stipulated in the Scope of Supply/ Services, Terms & conditions and Special Conditions of the contract.
- ii)** The bidders should have experience of composite work (Civil/Interior decoration along with Electrical, IT and AV project) in office building at PSUs/Central Govt./State Govt. Organizations or Corporate houses during the last 05 (Five) years reckoned till the end of **30th November 2021**, of value either of the following.

a. Three (03) completed orders of “Similar works” each costing not less than **Rs. 108.47 Lakh**

OR

b. Two (02) completed orders of “Similar works” each costing not less than **Rs. 135.59 Lakh**

OR

c. One (01) completed order of “Similar works” each costing not less than **Rs. 216.95 Lakh**

To this effect, Bidder should submit copies of respective contracts/LOI/NOA, along with documentary evidence in respect of satisfactory execution of each of those contracts/LOI/NOA, in the form of copies of any of the documents (indicating respective contracts/LOI/NOA and type of services), such as - (i) Satisfactory completion / performance report (OR) (ii) proof of release of Performance Security after completion of the contract (OR) (iii) proof of settlement / release of final payment against the contract (OR) (iv) any other documentary evidence that can substantiate the satisfactory execution of each of the contracts/work cited in Para 1 and 2 above.

- iii)** The bidder must be in the business of providing similar Audio Visual solution in Board/Conference room of Govt. organization/PSUs/Corporate offices in the last 3 years from the date of closing the tender.
- iv)** The bidder must be authorized service/solution provider/integrator of the OEM of major equipment [**Display panel, VC System, Matrix Switcher, Digital Sound processor**] for the quoted solution. Authorization letter from the OEM for this tender must be submitted along with the techno-commercial bid.

*SIMILAR WORK means modification/renovation works including all services such as Civil/Interior decoration along with Electrical, Acoustic, IT **(Supply, installation & commissioning of Audio-Visual Systems/facilities along with required civil/electrical work in any Govt. organization/PSUs/Corporate houses).***

- v) Average annual financial turnover of the bidder during preceding three financial/ accounting years from the original bid closing date should be at least **Rs. 81.35 Lakh**. For proof of Annual Turnover, any one of the following documents must be submitted along with the bid:-

a. Audited Balance Sheet along with Profit & Loss account.

OR

b. A certificate issued by a practicing Chartered / Cost Accountant (with Membership Number and Firm Registration Number).

Considering the time required for preparation of Financial Statements, if the last date of preceding financial/ accounting year falls within the preceding six months reckoned from the original bid closing date and the Financial Statements of the preceding financial/ accounting year are not available with the bidder, then the financial turnover of the previous three financial/ accounting years excluding the preceding financial/ accounting year will be considered.

- vi) Bidder should have an office in Delhi/NCR. Bidder must have to submit documentary evidence in support the same or a self-certificate.
- vii) Only Class-I and Class-II Local suppliers as per MII (Preference to Make in India), Order 2017 dated 04.06.2020 as amended from time to time and its subsequent Orders/Notifications will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate.
- viii) Only Class-I or Class-II local supplier mentioned in the circular issued by MoPNG vide FP-20013/2/2017-FP_PNG dated: 17/11/2020 and its subsequent amendment, if any, shall be eligible to bid in this tender. In this regard, bidder shall submit an undertaking from the authorized signatory of bidder having power of attorney along with the bid stating the bidder meets the mandatory minimum local content (LC) requirement and such undertaking shall become part of contract.**(NOT APPLICABLE)**

B.2 COMMERCIAL REJECTION CRITERIA:

The following vital commercial conditions should be strictly complied with, failing which the bid will be liable for rejection:

- i) Bid should be submitted in Two Bid system in two separate electronic envelopes. The Techno Commercial bid shall contain all details but with the price column of the price bid format blanked out. However a tick mark (✓) shall be provided against each item of the price bid format to indicate that there is a quote against this item in the techno-commercial bid. The Priced bid shall contain only the prices duly filled in as per the price bid format. The offers of the bidders indicating/disclosing prices in techno-commercial (un-priced bid) or at any stage before opening of price-bid shall be straightaway rejected.
- ii) **Acceptance of terms & conditions:** The bidder must confirm unconditional acceptance of General Terms & Conditions of Contract at **Annexure-II** and Instruction to Bidders at **Annexure-I** by attaching digitally signed tender document.

- iii) Bidders must specifically accept/comply with the following clauses as given in the tender document, failing which the offer will be rejected:
- a) Arbitration clause.
 - b) Tax liability clause.
 - c) LD/ penalty clause
 - d) Termination clause.
 - e) Performance Guarantee Clause
 - f) Force Majeure Clause
- iv) **Offers of following kinds will be rejected:**
- a) Offers made without Bid Security declaration.
 - b) Offers which do not confirm unconditional validity of **90 Days** of the bid as indicated in the "Invitation to Bid".
 - c) Offers where prices are not firm during the entire duration of the contract and/or with any qualifications.
 - d) Offers which do not conform to DGH's price bid format.
 - e) Offers which do not confirm to the contract period indicated in the bid.
 - f) The offers indicating/disclosing prices in techno-commercial (un-priced bid) or at any stage before opening of price-bid shall be straightaway rejected.
 - g) Offers not accompanied by copy of PAN Card will be rejected.
 - h) Offers not accompanied with a declaration that neither the bidders themselves, nor any of its allied concerns, partners or associates or directors or proprietors involved in any capacity, are currently serving any banning orders issued by DGH debarring them from carrying on business dealings with DGH.
 - i) Offers not accompanied with the undertaking on the company's letter head and duly signed by the signatory of the bid that all the documents/ certificates / information submitted by them against the tender are genuine.
 - j) Non -submission of Integrity Pact along with the bid, duly signed by the same signatory who signs the bids even after giving an opportunity after opening of techno-commercial bids.
- v) Bidder shall bear, within the quoted rates, the Personnel Tax as applicable in respect of their personnel and their sub-contractor's personnel, arising out of this contract. Bidder shall also bear, within the quoted rates, the Corporate Tax, as applicable, on the income arising out of this contract.

C. Purchase Preference:

- i) Purchase preference under Public Procurement Policy, 2012 and its subsequent amendment for Micro and Small Enterprises registered with District Industry Centers or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts and Handloom or any other body specified by Ministry of MSME.
- ii) **Preference to Make in India:** Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document 50%. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. In case

Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

- iii) Purchase preference policy-linked with Local Content (PP-LC) notified vide letter No O-27011/44/2015-ONG/II/FP dated 25.04.2017 of MoPNG and Public Procurement (Preference to Make in India) order 2017 notified vide letter No 33(1)/2017/IPHW dated: 14.09.2017 of Ministry of Electronics & Information Technology and subsequent relevant order/s shall be applicable in this tender. Bidders seeking benefits under Purchase Preference Policy shall have to submit all undertakings/documents applicable to this policy. **[NOT APPLICABLE]**
- iv) In case a bidder is eligible to seek benefits under PP-LC policy as well as Public Procurement Policy for MSEs – Order 2012, then the bidders should categorically seek benefits against only one of the two policies i.e. either PP-LC or MSE policy. If a bidder seeks free of cost tender document under the MSE policy, and then it shall be considered that the bidder has sought benefit against the MSE policy and this option once exercised cannot be modified subsequently. **[NOT APPLICABLE]**
- v) Bidders seeking Purchase preference (linked with local content) (PP-LC) shall be required to meet / exceed the target of Local Content (LC). **[NOT APPLICABLE]**

D. Price Evaluation Criteria:

- (i) Price bids will be evaluated on the basis of “Total Amount” (inclusive of GST), and the lowest bidder will be evaluated accordingly. The bidder who is evaluated as L-1 bidder will be considered for award of job. (refer Annexure-V)
- (ii) It is, however, to be clearly understood that the assumptions made in respect of the quantities of various line items in the Price Schedule/ BOQ are only tentative and for the purpose of evaluation of the bid, and the Contractor will be paid on the basis of the actual consumption/rendered services.

E. General:

- 1. The BEC over-rides all other similar clauses operating anywhere in the Bid Documents.
- 2. The bidder/contractor is prohibited to offer any service / benefit of any manner to any employee of DGH and that the contractor may suffer summary termination of contract / disqualification in case of violation.
- 3. Onsite inspection will be carried out by DGH's officers / representative /Third Parties at the discretion of the DGH.
- 4. Bidder shall be required to produce all the documents in original if asked by DGH, prior to placement of LOA. These are to be submitted within the time allowed by DGH. Any failure and / or delay to produce the original documents as asked by DGH will make the bid liable for rejection with or without forfeiture of EMD.
- 5. Bidders to note that failure to furnish all information required in the bidding document or submission of bid not substantially responsive to the bidding documents in every respect will be at the bidder's risk and shall result in the rejection of its bid. Incomplete, conditional or vague bids indicating exception / deviations to the conditions may be rejected.
- 6. DGH is not bound to accept the lowest offer and reserve to itself all rights to reject any or all offers without assigning any reasons thereof.
- 7. The entire options sought in job of work are mandatory to be quoted. Indicated jobs are required to be quoted and same is undertaken as single point responsibility during the contract period.
- 8. BEC matrices are enclosed in the tender document at Appendix-10 must be replied suitably and to be filled in with the reference page no. of their techno-commercial bid by the bidders. Bidder should submit these matrices duly filled in along with the techno-commercial bid, failing which their offer will be rejected.

BEC MATRIX

(Please review Bid Document before submission and mark every Bid Evaluation Criterion Clause with Compliance/Agreed or Non Compliance/Not agreed. Also enclose necessary documents and write reference Sr. No. of your bid document where:

Sl. No.	Details of BEC Clause	Confirm Compliance of BEC Clauses by appropriately ticking.	Supporting document	Documents at Sr. No. of Bid document
1	Bidders are advised not to take any exception/deviations to the bid document. Still, if exceptions /deviations are maintained in the bid, such conditional/non-conforming bids shall not be considered and shall be rejected.	Agreed/ Not Agreed	Enclosed/Not Enclosed	
2	Technical Rejection Criteria			
2.1	The bids must conform to the technical specifications and terms and conditions given in the Annexure-IV and Annexure-V. Bids shall be rejected in case the services offered do not conform to the required parameters stipulated in the Technical Specifications/Scope of Supply/ Works/ Services, Terms & conditions and Special Conditions of the contract.	Complied/ Not Complied	Enclosed/Not Enclosed	
2.2	<p>The bidders should have experience of composite work (Civil/Interior decoration along with Electrical, IT and AV project) in office building at PSUs/Central Govt./State Govt. Organizations or Corporate houses during the last 05 (Five) years reckoned till the end of 30th November 2021, of value either of the following.</p> <p>a. Three (03) completed orders of “Similar works” each costing not less than Rs. 108.47 Lakh OR</p> <p>b. Two (02) completed orders of “Similar works” each costing not less than Rs. 135.59 Lakh OR</p> <p>c. One (01) completed order of “Similar works” each costing not less than Rs. 216.95 Lakh</p> <p>To this effect, Bidder should submit copies of respective contracts/LOI/NOA, along with documentary evidence in respect of satisfactory execution of each of those contracts/LOI/NOA, in the form of copies of any of the documents (indicating respective contracts/LOI/NOA and type of services), such as - (i) Satisfactory completion / performance report (OR) (ii) proof of release</p>	Complied/ Not Complied	Enclosed/Not Enclosed	

	of Performance Security after completion of the contract (OR) (iii) proof of settlement / release of final payment against the contract (OR) (iv) any other documentary evidence that can substantiate the satisfactory execution of each of the contracts/work cited in Para 1 and 2 above.			
2.3	The bidder must be in the business of providing similar Audio Visual solution in Board/Conference room of Govt. organization/PSUs/Corporate offices in the last 3 years from the date of closing the tender.	Complied/ Not Complied	Enclosed/Not Enclosed	
2.4	The bidder must be authorized service/solution provider/integrator of the OEM of major equipment [Display panel, VC System, Matrix Switcher, Digital Sound processor] for the quoted solution. Authorization letter from the OEM for this tender must be submitted along with the techno-commercial bid.	Complied/ Not Complied	Enclosed/Not Enclosed	
2.5	<p>Average annual financial turnover of the bidder during preceding three financial/ accounting years from the original bid closing date should be at least Rs. 81.35 Lakh. For proof of Annual Turnover, any one of the following documents must be submitted along with the bid:-</p> <p>a. Audited Balance Sheet along with Profit & Loss account.</p> <p style="text-align: center;">OR</p> <p>b. A certificate issued by a practicing Chartered / Cost Accountant (with Membership Number and Firm Registration Number).</p> <p>Considering the time required for preparation of Financial Statements, if the last date of preceding financial/ accounting year falls within the preceding six months reckoned from the original bid closing date and the Financial Statements of the preceding financial/ accounting year are not available with the bidder, then the financial turnover of the previous three financial/ accounting years excluding the preceding financial/ accounting year will be considered.</p>	Complied/ Not Complied	Enclosed/Not Enclosed	
2.6	Bidder should have an office in Delhi/NCR. Bidder must have to submit documentary evidence in support the same or a self-certificate	Complied/ Not Complied	Enclosed/Not Enclosed	
2.7	Only Class-I and Class-II Local suppliers as per MII (Preference to Make in India), Order 2017 dated 04.06.2020 as amended from time to time and its subsequent Orders/Notifications will be eligible to bid.	Complied/ Not Complied	Enclosed/Not Enclosed	

	Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate.			
3	Commercial Rejection Criteria			
3.1	Bid should be submitted in Two Bid system in two separate electronic envelopes. The Techno Commercial bid shall contain all details but with the price column of the price bid format blanked out. However a tick mark (✓) shall be provided against each item of the price bid format to indicate that there is a quote against this item in the techno-commercial bid. The Priced bid shall contain only the prices duly filled in as per the price bid format. The offers of the bidders indicating/disclosing prices in techno-commercial (un-priced bid) or at any stage before opening of price-bid shall be straightaway rejected	Complied/ Not Complied Agreed/ Not Agreed	Enclosed/Not Enclosed	
3.2	The bidder must confirm unconditional acceptance of General Terms & Conditions of Contract at Annexure-II and Instruction to Bidders at Annexure-I by attaching digitally signed tender document.	Complied/ Not Complied Agreed/ Not Agreed	Enclosed/Not Enclosed	
3.3	Bidders to accept / comply with the following clauses as given in the tender document, failing which the offer will be rejected:			
a)	Arbitration clause.	Agreed/ Not Agreed	Enclosed/Not Enclosed	
b)	Tax liability clause.	Agreed/ Not Agreed	Enclosed/Not Enclosed	
c)	LD/ penalty clause	Agreed/ Not Agreed	Enclosed/Not Enclosed	
d)	Termination clause.	Agreed/ Not Agreed	Enclosed/Not Enclosed	
e)	Performance Guarantee Clause	Agreed/ Not Agreed	Enclosed/Not Enclosed	
f)	Force Majeure Clause.	Agreed/ Not Agreed	Enclosed/Not Enclosed	
3.4	Offers of following kinds will be rejected:			
3.4.1	Offers made without bid security declaration along with the offer.	Agreed/ Not Agreed	Enclosed/Not Enclosed	
3.4.2	Offers which do not confirm unconditional validity of the bid for 90 days from the date of opening of bid.	Agreed/ Not Agreed	Enclosed/Not Enclosed	
3.4.3	Offers where prices are not firm during the entire duration of the contract and/or with any qualifications.	Agreed/ Not Agreed	Enclosed/Not Enclosed	
3.4.4	Offers which do not conform to DGH's price bid format.	Agreed/ Not Agreed	Enclosed/Not Enclosed	
3.4.5	Offers which do not confirm to the contract period indicated in the bid.	Agreed/ Not Agreed	Enclosed/Not Enclosed	
3.4.6	The offers indicating/disclosing prices in techno-commercial (un-priced bid) or at any stage before opening of price-bid shall be straightaway rejected.	Agreed/ Not Agreed	Enclosed/Not Enclosed	
3.4.7	Offers not accompanied by copy of PAN Card will be rejected.	Complied/ Not Complied	Enclosed/Not Enclosed	

3.4.8	Offers not accompanied with a declaration that neither the bidders themselves, nor any of its allied concerns, partners or associates or directors or proprietors involved in any capacity, are currently serving any banning orders issued by DGH debarring them from carrying on business dealings with DGH.	Complied/ Not Complied Agreed/ Not Agreed	Enclosed/Not Enclosed	
3.4.9	Offers not accompanied with the undertaking on the company's letter head and duly signed by the signatory of the bid that all the documents/ certificates / information submitted by them against the tender are genuine.	Complied/ Not Complied Agreed/ Not Agreed	Enclosed/Not Enclosed	
3.4.10	Non-submission of Integrity Pact along with the bid, duly signed by the same signatory who signs the bids even after giving an opportunity after opening of techno-commercial bids.	Complied/ Not Complied Agreed/ Not Agreed	Enclosed/Not Enclosed	
3.5	Bidder shall bear, within the quoted rates, the Personnel Tax as applicable in respect of their personnel and their sub-contractor's personnel, arising out of this contract. Bidder shall also bear, within the quoted rates, the Corporate Tax, as applicable, on the income arising out of this contract	Complied/ Not Complied Agreed/ Not Agreed	Enclosed/Not Enclosed	
4	Submission of documents mentioned in check list i.e Appendix-9 (Annexure-I) of bid document.	Complied/ Not Complied	Enclosed/Not Enclosed	
5	Bidder has gone through the Purchase Preference mentioned at Clause C of Annexure-III of bid document and agreed to it.	Agreed/ Not Agreed	Enclosed/Not Enclosed	
6	BID EVALUATION CRITERIA:			
6.1	Evaluation of bids: Bidder has gone through the evaluation of bids mentioned at Clause D of Annexure-III of bid document and agreed to it.	Agreed/ Not Agreed	Enclosed/Not Enclosed	
7	GENERAL:			
7.1	Bidder has gone through the conditions at Clause E of Annexure-III of bid document and agreed to it.	Agreed/ Not Agreed	Enclosed/Not Enclosed	

Scope of work / terms of reference for Renovation of DGH office (Civil, Interior, Electrical & IT works)

i) Scope of Work for Renovation of DGH office (Civil/ Interior, Electrical and furniture):

A. GROUND FLOOR CONFERENCE ROOM

1. Breaking/ removing existing structure/ partitions/paneling's etc. & removal of malba from the existing premises as per the directions of Engineer in charge.
2. Removing of wooden flooring & removal of old cables and doing proper finishes of junction box & raceway therein.
3. Removing of old blinds from conference room and shifting where it's required.
4. Dismantling aluminium / Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material within 50 meters lead as directed by Engineer-in-Charge.
5. Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 mtrs. lead: For thickness of tiles above 25 mm and up to 40 mm
6. Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 mtrs. lead as per direction of Engineer - in - charge: Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)
7. Repairing and refixing of door/window shutters including removal of shutter from chowkats, cutting wherever necessary, removing and refixing butt hinges on other side of frame and shutter wherever required.
8. Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.
9. Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size).
10. Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration.
11. Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : Treatment at points of contact of wood work by chemical emulsion Chlorpyrifos/ Lindane (in oil or kerosene based solution) @ 0.5litres per hole by drilling 6 mm dia holes at downward angle of 45degree at 150 mm centre to centre and sealing the same.
12. Providing 12mm cement plaster of mix:1:4 (1 cement: 4 coarse sand).
13. Providing and laying 50mm x 50mm wooden frame inside conference room both walls with 50 mm glass wool filling having density of 24. providing and fixing wooden section vertical and horizontal of 600mm X 600mm size for giving strength to outer ply and making wall structures with 12mm thick commercial ply, back side .8 mm laminate finish and front side finished with veneer. Commercial ply-green ply/century make veneer - green ply/century.

14. Providing and laying 50mm x 50mm wooden frame inside conference room both walls with 50 mm glass wool filling having density of 24. providing and fixing wooden section vertical and horizontal of 600mm X 600mm size for giving strength to outer ply and making wall structures with 12mm thick commercial ply finished with veneer. Commercial ply- Make:- Green ply/century & veneer Make- green ply/century.
15. Strengthening the partition/paneling wall with additional steel framing for installation of TV/screen. As directed by architect.
16. Providing and fixing of teak Wooden battens of 25mm x 19mm over the paneling as per approved design/drawing. (TEAK WOOD) as directed by interior designer.
17. Providing glass wall films (3M film) on the outer surface of the existing glazed partition walls of the conference room.
18. Acoustic wall paneling for noise reduction of both walls having a nrc of .9
19. Providing and fixing 12 mm thick toughened designer lacquered glass pasted over wooden paneling as directed by interior designer.
20. Providing and fixing of designer cutout in MDF board or ss cut out of 12mm thickness, installed with at least 75mm gap from the partition with the provisioning of back light, finished with desired colour & PU coat as directed by interior designer.
21. Providing and laying of new wooden flooring with doing proper finish surface (LAMINATED WOOD) as directed by interior designer.
22. Providing & Laying laminated wood 75mm readymade skirting.
23. Providing and fixing of finished SS plates of at least 3mm thickness of 304 grade for junctions.
24. Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement: 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with : Udaipur green marble.
25. Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/ (both side inclusive), fixing with clip in tiles into spring 'T' with : GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation.
26. Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end

of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering up to 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with: 12.5 mm thick tapered edge gypsum plain board conforming IS: 2095 I.

27. Providing and fixing of wooden board ceiling with making cove finished with veneer 4mm x 4mm proper groove of approved design as per drawing & as directed by the Architect/EIC.
28. Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.
29. Providing & Applying Plaster of Paris putty of 2mm thickness over plastered surface to prepare the surface even and smooth complete.
30. Applying one coat of cement primer of approved brand and manufacture on wall surface: Cement primer.
31. Providing and applying (Royal touch) plastic paint in ceiling of approved shade and finished 3 coats of paint. Make- Asian, Berger, Nerolac or equivalent.
32. Polyurethane Polishing of surface with water base after preparation of base with filler etc. complete on the wooden surface make - ica pidilite, asian, Berger or Equivalent.
33. Providing and fixing bright finished brass butt hinges with necessary screws etc. complete: 125x85x5.5 mm (heavy type).
34. Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. (heavy type) complete.
35. Providing and Fixing brass Mortice Lock with handle complete Make:- Dorma, Godrej or Equivalent.
36. Wiring for light point/ fan point/ TV point with 2 X 2.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 2.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells, Finolex or equivalent.
37. Wiring for light point/ fan point/ TV point with 2 X 4 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 4 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells, Finolex or equivalent.
38. Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium

- class PVC conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire. Make Havells, Finolex or equivalent.
39. Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire. Make Havells, Finolex or equivalent.
 40. Wiring for circuit/ sub-main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required: 4 X 10 sq. mm + 2 X 6 sq. mm earth wire.
 41. Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator): 6-way, Double door
 42. Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.: Triple pole and neutral
 43. Providing and fixing of Double pole modular type MCB of 25 amps Make: Legrand, Havells, Philips or equivalent.
 44. Providing and fixing new modular switches and sockets of 3 pin 5/6 amp on tables and wherever required in wooden panel/reception tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent Make: Legrand, Havells, Philips or equivalent.
 45. Providing and fixing new modular switches and sockets of 3 pin 15/16 amp on tables and wherever required in wooden panel/conference tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent.
 46. Supply & Laying data cable Cat6 copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath including RJ 45 connector, I/O plate and I/O connector and where ever required in wooden panel/reception tables with complete connection. Make: Dlink or equivalent.
 47. Supply and drawing co-axial TV cable RG-6 grade, 0.7 mm. Solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed steel/ PVC conduit as required.
 48. Providing and fixing of floor Junction box with GI sheets including all accessories with 3mm thick removable cover plate fixed by screws including fixing the box with floor etc complete as per design and instruction of Engineer in charge (in ceiling / Floor) 200X200x35/ 45 mm.
 49. Providing and fixing in position the raceways of size 200 x 30 mm with 1.6 mm thick and cover with 3 mm thick including jointing patty etc in the floor all complete as per design and instructions of Engineer in charge.
 50. Providing & Installation of Mirror optics Led Panels light 2x 40w fitting-surface (600mmx600mm) cool white 6500k Make: - Legrand, Havells, Philips or equivalent.
 51. Providing & Installation of 12-watt panel light aluminium used not PVC. Make: Legrand, Havells, Philips or equivalent.
 52. Providing & Installation of 6-watt panel light aluminium used not PVC Make: Legrand, Havells, Philips or equivalent.

53. Providing & Installation of 6watt cob light deep fitting led used Make: Legrand, Havells, Philips or equivalent.
54. Providing & Installation of Profile light 1200 mm x 35mm x 25mm.
55. Providing & Installation of LED rope light warm white colour for coves with choke (60 watt).
56. Providing, laying, testing & commissioning of 'B' class heavy duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required .
57. Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories: Pendent Sprinkler.
58. Fabrication of console made up of wooden board inside 1mm laminate and front finish with veneer as selected by architect (all complete with pu polish, hardware hinges, handle and channels
59. Chair - Supplying and placing in position chair of the following specifications. The seat shall be made up of 1.2 +/- 0.1 cm thick hot-pressed plywood & upholstered with leather and moulded polyurethane foam. The back shall be designed with contoured lumber support for extra comfort. Size of back shall be W-53cm, H-73cm & size of seat shall be W-54.6cm x D-49cm. High Resilience (HR) foam should be used in making seat & back which shall be molded with density 45 +/- 2 kg/m³ and hardness load 16 +/- 2 kgf as per IS: 7888 for 25% compression. The seat and back should be arrested together with spine made of 0.8 +/- 0.05 cm thick HR steel and should be powder coated in black with 40-60micron DFT (Dry film thickness). The armrest assembly should be made up of armrest tube, PU armrest and the armrest top. The armrest tube assy. shall be made of 2.54 +/- 0.03cm x 0.16 +/- 0.0128 cm M.S E.R.W support tubes and chrome plated. The P.U armrest shall be made up of black integral skin polyurethane with 50-70 shore 'A' hardness reinforced with M.S insert. The armrest top shall be made up of ABS & upholstered with foam & leather. The mechanism of the chair shall have following features: 360° revolving type without back tilt. The chair shall be provided with pneumatic height adjustment which shall have stroke of 12.0 +/- 0.3 cm. The below should be made up of 3 piece telescopic type & injection moulded in black polypropylene. The pedestal shall be made of die-cast aluminium with buffing finish. it shall be fitted with 5 nos twin wheel castor. The size of the pedestal shall be 67.0 +/- 0.5 cm pitch-centre-dia (77.0 +/- 1.0 cm with castors). The twin wheel castors shall be made of Nylon injection moulded in black color. Overall dimensions of Chair shall be, Width of Chair - 77cm, Depth of Chair - 77 cm as measured from pedestal below. Height of back from ground - min 99.4 to max 111.4 cms. Seat height - min 43.4cm to max 55.4 cm. Dimensions tolerance / variations shall be within +/- 1 cm.
60. Modifying the existing conference table to conceal the existing raceways with wooden planks of 19mm thickness running along the tabletop. Planks to be of same finish as that of the existing colour of the table. Job also to include fabrication of customized vertical wooden raceway of approx. size 100mm (width) x 100mm (depth) x 750mm (height) duly finished to existing table finish for each cable manager (7nos).
61. Making provision for microphone & push buttons for VC by drilling/cutting relevant wooden section holes as per the IT requirement and facilitating the insertion of them. Job also to include removal of old cable manager & making provision for new cable manager and making tables suitable for conference room.
62. Providing & placing artifacts of approved shade & design
63. Providing and fixing of designer Paintings

B. SECOND FLOOR CONFERENCE ROOM

1. Breaking/ removing existing structure/ partitions/paneling's etc. & removal of malba from the existing premises as per the directions of Engineer in charge.
2. Removing of wooden flooring & removal of old cables and doing proper finishes of junction box & raceway therein
3. Removing of old blinds from conference room and shifting where its required.
4. Dismantling aluminium / Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material within 50 meters lead as directed by Engineer-in-Charge.
5. Repairing and refixing of door/window shutters including removal of shutter from chowkats, cutting wherever necessary, removing and refixing butt hinges on other side of frame and shutter wherever required.
6. Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.
7. Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion): Along external wall where the apron is not provided using chemical emulsion @ 7.5 liters / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration.
8. Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : Treatment at points of contact of wood work by chemical emulsion Chlorpyrifos/ Lindane (in oil or kerosene based solution) @ 0.5litres per hole by drilling 6 mm dia holes at downward angle of 45degree at 150 mm centre to centre and sealing the same.
9. Providing 12mm cement plaster of mix:1:4 (1 cement: 4 coarse sand).
10. Providing and laying 50mm x 50mm wooden frame inside conference room both walls with 50 mm glass wool filling having density of 24. providing and fixing wooden section vertical and horizontal of 600mm X 600mm size for giving strength to outer ply and making wall structures with 12mm thick commercial ply , back side .8 mm laminate finish and front side finished with veneer. Commercial ply-green ply/century make veneer - green ply/century.
11. Providing and laying 50mm x 50mm wooden frame inside conference room both walls with 50 mm glass wool filling having density of 24. providing and fixing wooden section vertical and horizontal of 600mm X 600mm size for giving strength to outer ply and making wall structures with 12mm thick commercial ply finished with veneer. Commercial ply-Make: - Green ply/century & veneer Make- green ply/century.
12. Strengthening the partition/paneling wall with additional steel framing for installation of TV/screen. As directed by architect
13. Providing glass wall films (3M film) on the outer surface of the existing glazed partition walls of the conference room.
14. Acoustic wall paneling for noise reduction of both walls having a nrc of .9
15. Providing and fixing wooden 12mm MDF designer jali with wooden molding(for 6mm glass fixing) inside wall finish with paint and top MDF finish with pu polish as selected by interior designer (MDF designer jali size 450mm X 25mm)

16. Providing and fixing 6 mm plain glass top of the MDF designer panel fixed with wooden molding.
17. Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/ (both side inclusive), fixing with clip in tiles into spring 'T' with : GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation.
18. Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering up to 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with: 12.5 mm thick tapered edge gypsum plain board conforming IS: 2095 I
19. Providing and fixing of wooden board ceiling with making cove finished with veneer 4mm x 4mm proper groove of approved design as per drawing & as directed by the Architect/EIC.
20. Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.
21. Providing & Applying Plaster of Paris putty of 2mm thickness over plastered surface to prepare the surface even and smooth complete.
22. Applying one coat of cement primer of approved brand and manufacture on wall surface: Cement primer

23. Providing and applying (Royal touch) plastic paint in ceiling of approved shade and finished 3 coats of paint. Make- Asian, Berger, Nerolac or equivalent
24. Polyurethane Polishing of surface with water base after preparation of base with filler etc. complete on the wooden surface make - ica pidilite, asian, Berger or equivalent.
25. Providing and laying of new wooden flooring with doing proper finish surface (LAMINATED WOOD) as directed by interior designer
26. Providing & Laying laminated wood 75mm readymade skirting
27. Providing and fixing of finished SS plates of at least 3mm thickness of 304 grade for junctions
28. Providing and fixing Wall Paper of approved make and colour with adhesive complete as directed by EIC./ interior designer
29. Providing and fixing bright finished brass butt hinges with necessary screws etc. complete: 125x85x5.5 mm (heavy type)
30. Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. (heavy type) complete.
31. Providing and Fixing brass Mortice Lock with handle complete Make :- Dorma, Godrej or equivalent
32. Wiring for light point/ fan point/ TV point with 2 X 2.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 2.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells, Finolex or equivalent.
33. Wiring for light point/ fan point/ TV point with 2 X 4 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 4 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells, Finolex or equivalent.
34. Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire. Make Havells, Finolex or equivalent.
35. Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire. Make Havells, Finolex or equivalent.
36. Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required: 4 X 10 sq. mm + 2 X 6 sq. mm earth wire
37. Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator): 6 way, Double door
38. Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.: Triple pole and neutral
39. Providing and fixing of Double pole modular type MCB of 25 amps Make: Legrand, Havells, Philips or equivalent.

40. Providing and fixing new modular switches and sockets of 3 pin 5/6 amp on tables and wherever required in wooden panel/reception tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent Make: Legrand, Havells, Philips or equivalent
41. Providing and fixing new switches and sockets of 3 pin 15/16 amp on tables and wherever required in wooden panel/conference tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent
42. Supply & Laying data cable Cat6 copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath including RJ 45 connector, I/O plate and I/O connector and where ever required in wooden panel/reception tables with complete connection. Make: Dlink or equivalent
43. Supply and drawing co-axial TV cable RG-6 grade, 0.7 mm. Solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed steel/ PVC conduit as required.
44. Providing and fixing of floor Junction box with GI sheets including all accessories with 3mm thick removable cover plate fixed by screws including fixing the box with floor etc complete as per design and instruction of Engineer in charge (in ceiling / Floor) 200X200x35/ 45 mm
45. Providing and fixing in position the raceways of size 200 x 30 mm with 1.6 mm thick and cover with 3 mm thick including jointing patty etc in the floor all complete as per design and instructions of Engineer in charge
46. Providing & Installation of Mirror optics Led Panels light 2x 40w fitting-surface (600mmx600mm) cool white 6500k Make: - Legrand, Havells, Philips or equivalent
47. Providing & Installation of 12-watt panel light aluminium used not PVC. Make: Legrand, Havells, Philips or equivalent
48. Providing & Installation of 6-watt panel light aluminium used not PVC Make: Legrand, Havells, Philips or equivalent
49. Providing & Installation of 6watt cob light deep fitting led used Make: Legrand, Havells, Philips or equivalent.
50. Providing and installation of LED Tube light set (600mm)
51. Providing & Installation of LED rope light warm white colour for coves with choke (60 watt)
52. Providing, laying, testing & commissioning of 'B' class heavy duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :
53. Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories: Pendent Sprinkler
54. Fabrication of console made up of wooden board inside 1mm laminate and front finish with veneer (including polish with all hardware, hinges, channels, handles) as selected by architect.
55. Chair - Supplying and placing in position chair of the following specifications. The seat shall be made up of 1.2 +/- 0.1 cm thick hot-pressed plywood & upholstered with leather and moulded polyurethane foam. The back shall be designed with contoured lumber support for extra comfort. Size of back shall be W-53cm, H-73cm & size of seat shall be W-54.6cm x D-49cm. High Resilience (HR) foam should be used

in making seat & back which shall be moulded with density $45 \pm 2 \text{ kg/m}^3$ and hardness load $16 \pm 2 \text{ kgf}$ as per IS: 7888 for 25% compression. The seat and back should be arrested together with spine made of $0.8 \pm 0.05 \text{ cm}$ thick HR steel and should be powder coated in black with 40-60 micron DFT (Dry film thickness). The armrest assembly should be made up of armrest tube, PU armrest and the armrest top. The armrest tube assy. shall be made of $2.54 \pm 0.03 \text{ cm} \times 0.16 \pm 0.0128 \text{ cm}$ M.S E.R.W. support tubes and chrome plated. The P.U armrest shall be made up of black integral skin polyurethane with 50-70 shore 'A' hardness reinforced with M.S insert. The armrest top shall be made up of ABS & upholstered with foam & leather. The mechanism of the chair shall have following features: 360° revolving type without back tilt. The chair shall be provided with pneumatic height adjustment which shall have stroke of $12.0 \pm 0.3 \text{ cm}$. The below should be made up of 3 piece telescopic type & injection moulded in black polypropylene. The pedestal shall be made of die-cast aluminium with buffing finish. it shall be fitted with 5 nos twin wheel castor. The size of the pedestal shall be $67.0 \pm 0.5 \text{ cm}$ pitch-centre-dia ($77.0 \pm 1.0 \text{ cm}$ with castors). The twin wheel castors shall be made of Nylon injection moulded in black color. Overall dimensions of Chair shall be, Width of Chair - 77cm, Depth of Chair - 77 cm as measured from pedestal below. Height of back from ground- min 99.4 to max 111.4 cms. Seat height - min 43.4cm to max 55.4 cm. Dimensions tolerance/ variations shall be within $\pm 1 \text{ cm}$.

56. Modifying the existing conference table to conceal the existing raceways with wooden planks of 19mm thickness running along the tabletop. Planks to be of same finish as that of the existing colour of the table. Job also to include fabrication of customized vertical wooden raceway of approx. size 100mm (width) x 100mm (depth) x 750mm (height) duly finished to existing table finish for each cable manager (7nos).
57. Making provision for mouse microphone by drilling/cutting relevant wooden section holes as per the IT requirement and facilitating the insertion of them. Job also to include removal of old cable manager & making provision for new cable manager and making tables suitable for conference room.
58. Providing & placing artifacts of approved shade & design
59. Providing and fixing of designer Paintings

C. FOURTH FLOOR CONFERENCE ROOM

1. Breaking/ removing existing structure/ partitions/paneling's etc. & removal of malba from the existing premises as per the directions of Engineer in charge.
2. Removing of wooden flooring & removal of old cables and doing proper finishes of junction box & raceway therein.
3. Removing of old blinds from conference room and shifting where its required.
4. Dismantling aluminium / Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material within 50 meters lead as directed by Engineer-in-Charge.
5. Repairing and refixing of door/window shutters including removal of shutter from chowkats, cutting wherever necessary, removing and refixing butt hinges on other side of frame and shutter wherever required.
6. Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.
7. Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :Along external wall where the

apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration.

8. Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : Treatment at points of contact of wood work by chemical emulsion Chlorpyrifos/ Lindane (in oil or kerosene based solution) @ 0.5litres per hole by drilling 6 mm dia holes at downward angle of 45degree at 150 mm centre to centre and sealing the same.
9. Providing 12mm cement plaster of mix: 1:4 (1 cement: 4 coarse sand).
10. Providing and laying 50mm x 50mm wooden frame inside conference room both walls with 50 mm glass wool filling having density of 24. providing and fixing wooden section vertical and horizontal of 600mm X 600mm size for giving strength to outer ply and making wall structures with 12mm thick commercial ply, back side .8 mm laminate finish and front side finished with veneer. Commercial ply-green ply/century make veneer - green ply/century.
11. Providing and laying 50mm x 50mm wooden frame inside conference room both walls with 50 mm glass wool filling having density of 24. providing and fixing wooden section vertical and horizontal of 600mm X 600mm size for giving strength to outer ply and making wall structures with 12mm thick commercial ply finished with veneer. Commercial ply-Make: - Green ply/century & veneer Make- green ply/century.
12. Strengthening the partition/paneling wall with additional steel framing for installation of TV/screen. As directed by architect
13. Providing glass wall films (3M film) on the outer surface of the existing glazed partition walls of the conference room.
14. Acoustic wall paneling for noise reduction of both walls having a nrc of .9.
15. Providing and fixing 5mm bronze glass with proper bevelling fixed with wooden molding use silicone to paste over the wooden paneling.
16. providing and fixing wooden storage inside 12 mm toughened glass selves with necessary hardware inside laminate top veneer with pu polish all inclusive
17. Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/ (both side inclusive), fixing with clip in tiles into spring 'T' with : GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation.
18. Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of

angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering up to 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with: 12.5 mm thick tapered edge gypsum plain board conforming IS: 2095 I.

19. Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.
20. Providing & Applying Plaster of Paris putty of 2mm thickness over plastered surface to prepare the surface even and smooth complete.
21. Applying one coat of cement primer of approved brand and manufacture on wall surface:
Cement primer
22. Providing and applying (Royal touch) plastic paint in ceiling of approved shade and finished 3 coats of paint. Make- Asian, Berger, Nerolac or equivalent.
23. Polyurethane Polishing of surface with water base after preparation of base with filler etc. complete on the wooden surface make - ica pidilite, asian, Berger or Equivalent.
24. Providing and laying of new wooden flooring with doing proper finish surface (LAMINATED WOOD) as directed by interior designer.
25. Providing & Laying laminated wood 75mm readymade skirting.
26. Providing and fixing of finished SS plates of at least 3mm thickness of 304 grades for junctions.
27. Providing and fixing bright finished brass butt hinges with necessary screws etc. complete: 125x85x5.5 mm (heavy type).
28. Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. (heavy type) complete.
29. Providing and Fixing brass Mortice Lock with handle complete Make :- Dorma, Godrej or Equivalent
30. Wiring for light point/ fan point/ TV point with 2 X 2.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 2.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells, Finolex or equivalent.

31. Wiring for light point/ fan point/ TV point with 2 X 4 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 4 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells, Finolex or equivalent.
32. Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire. Make Havells, Finolex or equivalent.
33. Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire. Make Havells, Finolex or equivalent.
34. Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required: 4 X 10 sq. mm + 2 X 6 sq. mm earth wire.
35. Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator): 6-way, Double door
36. Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.: Triple pole and neutral
37. Providing and fixing of Double pole modular type MCB of 25 amps Make: Legrand, Havells, Philips or equivalent.
38. Providing and fixing new modular switches and sockets of 3 pin 5/6 amp on tables and wherever required in wooden panel/reception tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent.
39. Providing and fixing new switches and sockets of 3 pin 15/16 amp on tables and wherever required in wooden panel/conference tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent.
40. Supply & Laying data cable Cat6 copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath including RJ 45 connector, I/O plate and I/O connector and where ever required in wooden panel/reception tables with complete connection. Make: Dlink or equivalent.
41. Supply and drawing co-axial TV cable RG-6 grade, 0.7 mm. Solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed steel/ PVC conduit as required.
42. Providing and fixing of floor Junction box with GI sheets including all accessories with 3mm thick removable cover plate fixed by screws including fixing the box with floor etc complete as per design and instruction of Engineer in charge (in ceiling / Floor) 200X200x35/ 45 mm.
43. Providing and fixing in position the raceways of size 200 x 30 mm with 1.6 mm thick and cover with 3 mm thick including jointing patty etc in the floor all complete as per design and instructions of Engineer in charge.
44. Providing & Installation of Mirror optics Led Panels light 2x 40w fitting-surface (600mmx600mm) cool white 6500k Make: - Legrand, Havells, Philips or equivalent.

45. Providing & Installation of 12-watt panel light aluminium used not PVC. Make: Legrand, Havells, Philips or equivalent.
46. Providing & Installation of 6-watt panel light aluminium used not PVC Make: Legrand, Havells, Philips or equivalent.
47. Providing & Installation of 6watt cob light deepfitting ledused Make: Legrand, Havells, Philips or equivalent.
48. Providing & Installation of 3-watt cob light deepfitting ledused Make: Legrand, Havells, Philips or equivalent.
49. Providing & Installation of 1-watt cob light deepfitting ledused Make: Legrand, Havells, Philips or equivalent.
50. Providing and installation of LED Tube light set (600 mm).
51. Providing & Installation of LED rope light warm white colour for coves with choke (60 watt).
52. Providing, laying, testing & commissioning of 'B' class heavy duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required.
53. Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories: Pendent Sprinkler
54. Fabrication of console made up of wooden board inside 1mm laminate and front finish with veneer (including polish with all hardware, hinges, channels, handles) as selected by architect.
55. Modifying the existing conference table to conceal the existing raceways with wooden planks of 19mm thickness running along the tabletop. Planks to be of same finish as that of the existing colour of the table. Job also to include fabrication of customized vertical wooden raceway of approx. size 100mm (width) x 100mm (depth) x 750mm (height) duly finished to existing table finish for each cable manager (7nos).
56. Making provision for mouse microphone by drilling/cutting relevant wooden section holes as per the IT requirement and facilitating the insertion of them. Job also to include removal of old cable manager & making provision for new cable manager and making tables suitable for conference room.
57. Chair - Supplying and placing in position chair of the following specifications. The seat shall be made up of 1.2 +/- 0.1 cm thick hot pressed plywood & upholstered with leather and moulded polyurethane foam. The back shall be designed with contoured lumber support for extra comfort. Size of back shall be W-53cm, H-73cm & size of seat shall be W-54.6cm x D-49cm. High Resilience (HR) foam should be used in making seat & back which shall be moulded with density 45 +/- 2 kg/m³ and hardness load 16 +/- 2 kgf as per IS: 7888 for 25% compression. The seat and back should be arrested together with spine made of 0.8 +/- 0.05 cm thick HR steel and should be powder coated in black with 40-60 micron DFT (Dry film thickness). The armrest assembly should be made up of armrest tube, PU armrest and the armrest top. The armrest tube assy. shall be made of 2.54 +/- 0.03cm x 0.16 +/- 0.0128 cm M.S E.R.W. support tubes and chrome plated. The P.U armrest shall be made up of black integral skin polyurethane with 50-70 shore 'A' hardness reinforced with M.S insert. The armrest top shall be made up of ABS & upholstered with foam & leather. The mechanism of the chair shall have following features: 360° revolving type without back tilt. The chair shall be provided with pneumatic height adjustment which shall have stroke of 12.0 +/- 0.3 cm. The below should be made up of 3 piece telescopic type & injection moulded in black polypropylene. The pedestal shall be made of die-cast aluminium with buffing finish. it shall be fitted with 5 nos twin wheel castor. The

size of the pedestal shall be 67.0 +/- 0.5 cm pitch-centre-dia (77.0 +/- 1.0 cm with castors). The twin wheel castors shall be made of Nylon injection moulded in black color. Overall dimensions of Chair shall be, Width of Chair - 77cm, Depth of Chair - 77 cm as measured from pedestal below. Height of back from ground - min 99.4 to max 111.4 cms. Seat height - min 43.4cm to max 55.4 cm. Dimensions tolerance / variations shall be within +/- 1 cm.

58. Providing & placing artifacts of approved shade & design.

59. Providing and fixing of designer Paintings.

D. GROUND FLOOR RECEPTION

1. Breaking/ removing existing structure/ partitions/paneling's etc. & removal of malba from the existing premises as per the directions of Engineer in charge.
2. Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 mtrs. lead.
3. Dismantling aluminium / Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material within 50 meters lead as directed by Engineer-in-Charge.
4. Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.
5. Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration.
6. Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion): Treatment at points of contact of wood work by chemical emulsion Chlorpyrifos/ Lindane (in oil or kerosene based solution) @ 0.5litres per hole by drilling 6 mm dia holes at downward angle of 45degree at 150 mm centre to centre and sealing the same.
7. Providing 12mm cement plaster of mix: 1:4 (1 cement: 4 coarse sand).
8. Providing and laying 50mm x 50mm wooden frame inside reception of both walls providing and fixing wooden section vertical and horizontal of 600mm x 600mm size for giving strength to outer ply and making wall structures with 50mm thick commercial ply, front side finished with 4.00mm thick veneer.

Commercial Ply-Make: - Green ply /century or equivalent

Veneer Make- green ply/century or equivalent.

9. Providing and fixing Glass wool 50mm thick 48 KG per Cum in the existing wooden partitions including tissue paper etc complete as per manufacture specification.
10. Strengthening the partition/paneling wall with additional steel framing for installation of TV/screen. As directed by architect.
11. Providing and laying 19mm thick commercial ply fixed on wall, wall back side necessary precaution should be taken or waterproof sheet should be used top surface finished with veneer. Commercial ply-Make: - Green ply /century or equivalent & veneer Make- green ply/century or equivalent.

12. Providing and fixing 12 mm thick toughened designer lacquered glass inside digital painting with sandwich glass pasted over wooden paneling as directed by interior designer.
13. Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering up to 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with: 12.5 mm thick tapered edge gypsum plain board conforming IS: 2095 I.
14. Extra for sunk or raised moldings in the plaster of Paris (Gypsum anhydrous) ceiling.
15. Providing and fixing of wooden board ceiling inside veneer with 40mm x 12mm teak wood batten fixed on wooden board of approved design as per drawing & as directed by the Architect/EIC.
16. Providing and fixing of wooden board fixed on ceiling, top 5mm bronze glass with bevelled edge pasted with silicon on wooden board of approved design as per drawing & as directed by the Architect/EIC.
17. Providing and laying of new Italian flooring with diamond cut polish as directed by interior designer.
18. Providing and fixing machine cut, mirror/ eggshell polished, Marble stone work for wall lining (veneer work) including dado, skirting, risers of steps etc., in required design and pattern wherever required including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge. 18 mm thick Italian Marble stone slab, Perlato, Rosso verona, Fire Red or Dark Emperadore etc.
19. Providing and fixing of finished SS plates of at least 3mm thickness of 304 grade for junctions.
20. Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.
21. Providing & Applying Plaster of Paris putty of 2mm thickness over plastered surface to prepare the surface even and smooth complete.

22. Applying one coat of cement primer of approved brand and manufacture on wall surface: Cement primer.
23. Providing and applying (Royal touch) plastic paint in ceiling of approved shade and finished 3 coats of paint. Make- Asian, Berger, Nerolac or equivalent.
24. Polyurethane Polishing of surface with water base after preparation of base with filler etc. complete on the wooden surface make - ica pidilite, asian, Berger or Equivalent.
25. Wiring for light point/ fan point/ TV point with 2 X 2.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 2.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells, Finolex or equivalent.
26. Wiring for light point/ fan point/ TV point with 2 X 4 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 4 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells, Finolex or equivalent.
27. Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire. Make Havells, Finolex or equivalent.
28. Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire. Make Havells, Finolex or equivalent.
29. Providing and fixing of Double pole modular type MCB of 25 amps Make: Legrand, Havells, Philips or equivalent.
30. Providing and fixing new modular switches and sockets of 3 pin 5/6 amp on tables and wherever required in wooden panel/reception tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent.
31. Providing and fixing new switches and sockets of 3 pin 15/16 amp on tables and wherever required in wooden panel/conference tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent.
32. Supply & Laying data cable Cat6 copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath including RJ 45 connector/O plate and I/O connector and where ever required in wooden panel/reception tables with complete connection. Make: D-link or equivalent.
33. Supply and drawing co-axial TV cable RG-6 grade, 0.7 mm. Solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed steel/ PVC conduit as required.
34. Providing and fixing of floor Junction box with GI sheets including all accessories with 3mm thick removable cover plate fixed by screws including fixing the box with floor etc complete as per design and instruction of Engineer in charge (in ceiling / Floor) 200X200x35/ 45 mm.
35. Providing and fixing in position the raceways of size 200 x 30 mm with 1.6 mm thick and cover with 3 mm thick including jointing patty etc in the floor all complete as per design and instructions of Engineer in charge.
36. Providing & Installation of Mirror optics Led Panels light 300mm x 3000mm suspended with proper stringers and clamps (warm white 4000k).

37. Providing & Installation of 12-watt panel light aluminum used not PVC. Make: Legrand, Havells, Philips or equivalent Make: Legrand, Havells, Philips or equivalent.
38. Providing & Installation of 6-watt panel light aluminum used not PVC Make: Legrand, Havells, Philips or equivalent.
39. Providing & Installation of 6watt cob light deep fitting led used Make: Legrand, Havells, Philips or equivalent.
40. Providing & Installation of designer wall light as per drawing & as directed by the Architect Make: Legrand, Havells, Philips or equivalent.
41. Providing & Installation of LED rope light warm white colour for coves with choke (60 watt) as per drawing & as directed by the Architect Make: Legrand, Havells, Philips or equivalent.
42. Providing, laying, testing & commissioning of 'B' class heavy duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required.
43. Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories: Pendent Sprinkler.
44. Providing and fixing of the Reception counter of size 4200 x 700 x 1050 mm having 2 nos drawer units. Top, sides, front, shelves and shutters are made out of 19 mm thick commercial board and 12 mm thick commercial ply for the drawers, 4 mm thick veneer on drawer unit front & inside and inside surfaces. Teak wood lipping is to be provided on all the edges. 12mm thick corian duly polished is to be provided on the front elevation top and sides. Provided Necessary hardware's such as auto closing hinges, drawer slides, lock and handles are also included. All exposed veneer surfaces & lippings are finished with spirit polishing of approved. The item is complete with design, drawing and instruction of engineer in charge Corian make - DU point, LG, or equivalent and ply-Make: - Green ply/century.
45. Providing and placing L shape Table for CCTV controller and courier man size (1200mm x 600mm + 900mm X 600mm) x 750mm height - 25mm thick commercial plywood (green ply or equivalent) matching with 1 mm thick laminate inside and outside finish with veneer (pu polishing as directed by Interior designer (Greenlam or equivalent) with lapping edge bending ,free standing office desk with pedestal of size 450mm w x 600mm d x700mm ht. with 3 drawers (2 box + 1 file) locable with keyboard tray pencil type with/without mouse tray - plastic /metal. Necessary hardware's, provisions for spaces & cut outs for electrical conduits, socket/ switches to be made as per required etc. complete as directed by EIC.
46. Providing and installing hanging crystal stone with designer tread.
47. Chair Supplying and placing in position chair of the following specifications. The seat shall be made of Injection moulded Plastic outer & inner. Plastic Inner shall be upholstered with fabric and moulded Polyurethane foam. The back shall be made of 1.2 \pm 0.1em. hot-pressed plywood measured as per QA method described in OCP-QLTA-P14-18 & upholstered with fabric and moulded Polyurethane foam and back covers. The back foam shall be designed with contoured lumbar support for extra comfort. Dimensions of Back shall be: (W)46.0 cm x (H)50.5 Cm, and of Seat: (W)46.0cm x (D) 48.0 cm. The HR polyurethane foam shall be moulded with Density= 45 \pm 2 kg/m³ and back hardness load 12 \pm 2 kgf and seat hardness load 16 \pm 2 as per IS:7888 for 25% compression. spine cap shall be made up of Polypropylene which covers the back frame and spine junction. The armrests shall have only Up-Down adjustment- 8.0 \pm 0.5cm (8 positions) which shall be provided in armrest structure.

Armrest Top is made up of PU with metal insert fitted on the armrest structure. The adjustable tilting mechanism shall be designed with the following features:

- 360° revolving type.
- Front pivot for tilt with feet resting on ground and continuous lumbar support ensuring more comfort.
- Side tilt tension adjustment can be operated in seating position.
- 4-position Tilt limiter giving options of variable tilt angle to the chair (5 steps: 0° to 20° \pm 2° tilting). Make: - Godrej, Durian, Featherlite or equivalent.
- Seat/back tilting ratio of 1:2., Seat depth adjustment shall be integrated in the seat through a sliding mechanism. The pneumatic height adjustment shall have an adjustment of 10.0 \pm 0.3cm. The pedestal shall be injection moulded in black 30% glass-filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal shall be 66.1 \pm 0.5cm pitch center dia (76.1 \pm 1.0cm with castors). The twin wheel castors shall be injection moulded in black Polypropylene. overall dimensions shall be as Seat Height - min 45.2 to max 55.2cm, Height - min 96.3 to max 106.3cm Width & Depth of Chair as measured from pedestal - Width-75.77 cm and Depth-75.77 cm Make :- Godrej, Durian, Featherlight or equivalent.

48. Sofa 1 Seater Supplying and placing in position sofa of the following specifications. Upholstery: Microfiber with Polyester Laminate Frame Material: Kiln dried wood Seat Foam: Slab stock foam with recron layer. Also bonded foam used as a supporting material beneath slab stock. Foam Density: 34 kg/ cubic m. Back Foam: Slab stock foam with recron fill at back and arms. Foam Density: 34 kg/cubic m. Webbing Material: S- spring along with nylon strips. The overall dimension of the sofa shall be 1060 mm(W) x 912 mm (D) X 830mm (H). The upholstery is made of Leatherite. The seat and backrest is filled with recron. The frame is made up of tropical wooden. Make: - Godrej, Durian or equivalent.

49. Sofa 2-Seater Supplying and placing in position sofa of the following specifications. Upholstery: Microfiber with Polyester Laminate Frame Material: Kiln dried wood Seat Foam: Slab stock foam with recron layer. Also bonded foam used as a supporting material beneath slab stock. Foam Density: 34 kg/ cubic m. Back Foam: Slab stock foam with recron fill at back and arms. Foam Density: 34 kg/cubic m. Webbing Material: S- spring along with nylon strips. The overall dimension of the sofa shall be 1572 mm(W) x 912 mm (D) X 830mm (H). The upholstery is made of Leatherite. The seat and backrest are filled with recron. The frame is made up of tropical wooden. Make: - Godrej, Durian or equivalent.

50. Centre table Supplying and placing in position Center table of following specifications. The overall size shall be: Width - 1000 mm, Depth-700, Height - 450 mm. Material: Glass of 12 mm thick tempered/toughened, Solid rubber wood legs and frame, MS sheet as bottom shelf. PU Coated rubber wood parts with a clear glass. Metal frames are powder coated in shade Black to the thickness of 40-80 microns. Make: - Godrej, Durian or equivalent.

51. Corner Tab Supplying and placing in position Corner table of following specifications. Overall Size: Width - 500 mm, Depth-500, Height - 450 mm. Material: Glass of 12 mm thick tempered/toughened, Solid rubber wood legs and frame, MS sheet as bottom shelf. PU Coated rubber wood parts with clear glass. Metal frames are powder coated in shade Black to the thickness of 40-80 microns. Make: - Godrej, Durian or equivalent.

52. Providing & placing artifacts of approved shade & design.

53. Providing and fixing of designer Paintings.

E. SECOND FLOOR RECEPTION

1. Breaking/ removing existing structure/ partitions/paneling's etc. & removal of malba from the existing premises as per the directions of Engineer in charge.
2. Dismantling aluminium / Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material within 50 meters lead as directed by Engineer-in-Charge.
3. Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 mtrs. lead.
4. Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.
5. Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion): Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration.
6. Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion): Treatment at points of contact of wood work by chemical emulsion Chlorpyrifos/ Lindane (in oil or kerosene based solution) @ 0.5litres per hole by drilling 6 mm dia holes at downward angle of 45degree at 150 mm centre to centre and sealing the same.
7. Brick work with common burnt clay F.P.S. (non-modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand).
8. Providing 12mm cement plaster of mix: 1:4 (1 cement: 4 coarse sand).
9. Providing and fixing 18 mm thick gang saw cut, mirror polished, pre-moulded and pre-polished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, molding and polishing to edges to give high gloss finish etc. complete at all levels Granite of any colour and shade : Area of slab over 0.50 sqm
10. Providing and laying 50mm x 50mm wooden frame inside reception of both walls providing and fixing wooden section vertical and horizontal of 600mm x 600mm size for giving strength to outer ply and making wall structures with 50mm thick commercial ply , front side finished with 4.00mm thick veneer. Commercial ply-Make: - Green ply /century or equivalent & veneer Make- green ply/century or equivalent.
11. Strengthening the partition/paneling wall with additional steel framing for installation of TV as directed by architect.
12. Providing and laying 19mm thick commercial ply fixed on wall, wall back side necessary precaution should be taken or waterproof sheet should be used top surface finished with veneer. Commercial ply-Make: - Green ply /century or equivalent & veneer Make- green ply/century or equivalent.
13. Providing and fixing 12 mm thick toughened designer lacquered glass pasted over wooden paneling as directed by interior designer.
14. Providing and fixing of wooden batten 35mm x 25 mm teak wood, finished with desired colour & PU coat as directed by interior designer.

15. Providing and laying 19mm thick commercial ply fixed on wall, wall back side necessary precaution should be taken or waterproof sheet should be used top surface finished with 6 mm solid surface. Commercial ply-Make: - Green ply /century or equivalent & Solid surface Make - l.g , Merino or equivalent.
16. Providing and laying 19mm thick commercial ply fixed on wall, top 5mm bronze glass with 4 mm veneer. Commercial ply-Make: - Green ply /century or equivalent & veneer Make- green ply/century or equivalent.
17. Providing and installation of stainless-steel letters (304 grade) mounted on SS circular rods of at least 25mm dia from the supported from the wall. SS letters to be made visible from within the vertical garden as per the design. (3 letters of size approx. 450mm x 250mm).
18. Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering up to 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with: 12.5 mm thick tapered edge gypsum plain board conforming IS: 2095 I.
19. Providing and fixing of wooden board ceiling inside veneer with 5mm bronze glass pasted with silicon of approved design as per drawing & as directed by the Architect/EIC.
20. Providing and fixing of wooden board fixed on ceiling, top 5mm bronze glass with bevelled edge pasted with silicon on wooden board of approved design as per drawing & as directed by the Architect/EIC.
21. Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.
22. Providing & Applying Plaster of Paris putty of 2mm thickness over plastered surface to prepare the surface even and smooth complete.
23. Applying one coat of cement primer of approved brand and manufacture on wall surface: Cement primer
24. Providing and applying (Royal touch) plastic paint in ceiling of approved shade and finished 3 coats of paint. Make- Asian, Berger, Nerolac or equivalent.

25. Polyurethane Polishing of surface with water base after preparation of base with filler etc. complete on the wooden surface make - ica pidilite, asian, Berger or equivalent.
26. Wiring for light point/ fan point/ TV point with 2 X 2.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 2.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells, Finolex or equivalent.
27. Wiring for light point/ fan point/ TV point with 2 X 4 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 4 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells, Finolex or equivalent.
28. Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire. Make Havells, Finolex or equivalent.
29. Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire. Make Havells, Finolex or equivalent.
30. Providing and fixing of Double pole modular type MCB of 25 amps Make: Legrand, Havells, Philips or equivalent
31. Providing and fixing new modular switches and sockets of 3 pin 5/6 amp on tables and wherever required in wooden panel/reception tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent Make: Legrand, Havells, Philips or equivalent.
32. Providing and fixing new switches and sockets of 3 pin 15/16 amp on tables and wherever required in wooden panel/conference tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent.
33. Supply & Laying data cable Cat6 copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath including RJ 45 connector, I/O plate and I/O connector and where ever required in wooden panel/reception tables with complete connection. Make: Dlink or equivalent.
34. Supply and drawing co-axial TV cable RG-6 grade, 0.7 mm. Solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed steel/ PVC conduit as required.
35. Providing and fixing of floor Junction box with GI sheets including all accessories with 3mm thick removable cover plate fixed by screws including fixing the box with floor etc complete as per design and instruction of Engineer in charge (in ceiling / Floor) 200X200x35/ 45 mm.
36. Providing and fixing in position the raceways of size 200 x 30 mm with 1.6 mm thick and cover with 3 mm thick including jointing patty etc in the floor all complete as per design and instructions of Engineer in charge.
37. Providing & Installation of 12-watt panel light aluminium used not PVC. Make: Legrand, Havells, Philips or equivalent.
38. Providing & Installation of 6-watt panel light aluminium used not PVC Make: Legrand, Havells, Philips or equivalent.

39. Providing & Installation of 6watt cob light deep fitting led used Make: Legrand, Havells, Philips or equivalent.
40. Providing & Installation of designer hanging light as per drawing & as directed by the Architect Make: Legrand, Havells, Philips or equivalent.
41. Providing & Installation of LED rope light warm white colour for coves with choke (60 watt) as per drawing & as directed by the Architect Make: Legrand, Havells, Philips or equivalent.
42. Providing and installing up lighter with down lighter fitting as per drawing & as directed by the Architect Make: Legrand, Havells, Philips or equivalent.
43. Fabrication of console made up of wooden board inside 1mm laminate and front finish with veneer as selected by architect (all complete with pu polish, hardware hinges, handle and channels).
44. Providing, laying, testing & commissioning of 'B' class heavy duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required.
45. Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories: Pendent Sprinkler.
46. Providing and fixing of the Reception counter of size 2400 x 700 x 1050 mm having 2 nos drawer units. Top, sides, front, shelves and shutters are made out of 19 mm thick commercial board and 12 mm thick commercial ply for the drawers .4 mm thick veneer on drawer unit front & inside and inside surfaces. Teak wood lipping is to be provided on all the edges.
47. 12mm thick corian duly polished is to be provided on the front elevation top and sides. Provided Necessary hardware's such as auto closing hinges, drawer slides, lock and handles are also included. All exposed veneer surfaces & lippings are finished with spirit polishing of approved. The item is complete with design, drawing and instruction of engineer in charge Corian make - DU point, LG, or equivalent and ply-Make: - Green ply/century.
48. Chair Supplying and placing in position chair of the following specifications. The seat shall be made of Injection moulded Plastic outer & inner. Plastic Inner shall be upholstered with fabric and moulded Polyurethane foam. The back shall be made of 1.2 \pm 0.1em. hot-pressed plywood measured as per QA method described in OCP-QLTA-P14-18 & upholstered with fabric and moulded Polyurethane foam and back covers. The back foam shall be designed with contoured lumbar support for extra comfort. Dimensions of Back shall be: (W)46.0 cm x (H)50.5 Cm, and of Seat: (W)46.0cm x (D) 48.0 cm. The HR polyurethane foam shall be moulded with Density= 45 \pm 2 kg/m³ and back hardness load 12 \pm 2 kgf and seat hardness load 16 \pm 2 as per IS:7888 for 25% compression. spine cap shall be made up of Polypropylene which covers the back frame and spine junction. The armrests shall have only Up-Down adjustment- 8.0 \pm 0.5cm (8 positions) which shall be provided in armrest structure. Armrest Top is made up of PU with metal insert fitted on the armrest structure. The adjustable tilting mechanism shall be designed with the following features:
 - 360° revolving type.
 - Front pivot for tilt with feet resting on ground and continuous lumbar support ensuring more comfort.
 - Side tilt tension adjustment can be operated in seating position.

- 4-position Tilt limiter giving options of variable tilt angle to the chair (5 steps: 0° to 20° ±2° tilting). Make: - Godrej, Durian, Featherlight or equivalent.
 - Seat/back tilting ratio of 1:2., Seat depth adjustment shall be integrated in the seat through a sliding mechanism. The pneumatic height adjustment shall have an adjustment of 10.0 ±0.3cm. The pedestal shall be injection moulded in black 30% glass-filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal shall be 66.1 ±0.5cm pitch-center dia (76.1 ±1.0cm with castors). The twin wheel castors shall be injection moulded in black Polypropylene. overall dimensions shall be as Seat Height - min 45.2 to max 55.2cm, Height - min 96.3 to max 106.3cm Width & Depth of Chair as measured from pedestal - Width-75.77 cm and Depth-75.77 cm Make :- Godrej, Durian, Feather lite or equivalent.
49. Sofa 2-Seater Supplying and placing in position sofa of the following specifications. Upholstery: Microfiber with Polyester Laminate Frame Material: Kiln dried wood Seat Foam: Slab stock foam with recron layer. Also bonded foam used as a supporting material beneath slab stock. Foam Density: 34 kg/ cubic m. Back Foam: Slab stock foam with recron fill at back and arms. Foam Density: 34 kg/cubic m. Webbing Material: S- spring along with nylon strips. The overall dimension of the sofa shall be 1572 mm(W) x 912 mm (D) X 830mm (H). The upholstery is made of Leatherite. The seat and backrest are filled with recron. The frame is made up of tropical wooden. Make: - Godrej, Durian or equivalent.
50. Side Table - Supplying and placing in position Corner table of following specifications. Overall Size: Width - 500 mm, Depth-500, Height - 450 mm. Material: Glass of 12 mm thick tempered/toughened, Solid rubber wood legs and frame, MS sheet as bottom shelf. PU Coated rubber wood parts with clear glass. Metal frames are powder coated in shade Black to the thickness of 40-80 microns. Make: - Godrej, Durian or equivalent.
51. Providing & placing artifacts of approved shade & design.
52. Providing and fixing of designer Paintings.

F. DG CELL SECOND FLOOR

1. Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material within 50 meters lead as directed by Engineer-in-charge.
2. Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.
3. Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 mtrs. lead.
4. Removing of wooden flooring & removal of old cables and doing proper finishes of junction box & raceway therein.
5. Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.
6. Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by the Engineer in-charge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.60.

7. Providing and Fixing 15 mm thick densified tegular edged eco-friendly light weight calcium silicate false ceiling tiles of approved texture spintone/ cosmos / Hexa or equivalent of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections.
8. Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre.
9. Providing and fixing 50 mm x 25 mm timber framing for wall paneling of hard wood (Malaysian red/ yellow Mirandi) @ 600mm centre to centre. Necessary provisions for spaces & cut outs for electrical conduits, socket/ switches to be made as per required. The frames are duly treated with anti-termite and fire-retardant paint. etc complete.
10. Providing & fixing 12mm thick plywood of approved make and finished with veneer duly polished as approved on exposed faces with grooves as per design. The rates shall include all hardware, fittings, adhesives, beadings, lippings etc as directed by the EIC. Makes Kit ply / Century or equivalent.
11. Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Second class teak wood.
12. Providing and fixing cabinet, 400 mm deep, height and length as per site requirement made of 19 mm thick commercial board (Duro/Century/Donear or equivalent), with open able shutter, all shelving shall be loose and adjustable. Back shall be 12 mm thick. All exposed sides and bottom side of cabinet & inside the cabinet finished with 1.00 mm thick laminate of greenlam or equivalent approved class. All Shutter should be toughened glass with all necessary fitting Complete (Payment shall be made as per front area of the cabinet).
13. Providing and fixing Foot stap, height and length as per site requirement made of 19 mm thick commercial board (Duro/Century/Donear or equivalent), with Top shall be 12 mm thick ply. All exposed sides of footrest finished with 1.00 mm thick laminate of greenlam or equivalent approved class.
14. Laying rectified Glazed Ceramic floor tiles 300x300mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20mm thick Cement Mortar 1:4 (1 cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc., complete.
15. Providing and laying of new wooden flooring with doing proper finish surface (LAMINATED WOOD) as directed by interior designer.
16. Providing & Laying laminated wood 75mm readymade skirting.
17. Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.
18. Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface: Water thinnable cement primer.
19. Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.
20. Wall painting with acrylic emulsion plastic paint of approved brand and manufacture to give an even shade: Two or more coats on new work.

21. Applying priming coat: With ready mixed pink or Grey primer of approved brand and manufacture on woodwork (hard and soft wood).
22. French spirit polishing: Two or more coats on new works including a coat of wood filler.
23. Providing & Fixing 12mm thick Toughened glass.
24. Providing glass wall films (3M film) on the outer surface of the existing glazed partition walls of the conference room.
25. Supply and installation of tabletop 12mm clear toughened glass with bevelled side edge. (CPU unit size: 1500mm x 750mm and Side unit size: 900mm x 450mm) (Make: Saint-Gobain/Modi Guard).
26. Providing and fixing in position 6mm thick approved white colored lacquered glass over existing partition / paneling with silicone etc complete as per design and manufacturer's specifications.
27. Supply & fixing red color pinup board.
28. Supplying and Fixing of magnetic white board (1200mm x2400mm).
29. Providing and fixing bright finished brass butt hinges with necessary screws etc. complete: 125x85x5.5 mm (heavy type).
30. Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. (heavy type) complete.
31. Providing and Fixing brass Mortice Lock with handle complete Make: - Dorma, Godrej or Equivalent
32. Wiring for light point/ fan point/ TV point with 2 X 2.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 2.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells, Finolex or equivalent.
33. Wiring for light point/ fan point/ TV point with 2 X 4 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 4 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells, Finolex or equivalent.
34. Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire. Make Havells, Finolex or equivalent.
35. Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire. Make Havells, Finolex or equivalent.
36. Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required: 4 X 10 sq. mm + 2X6 sq. mm earth wire.
37. Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator):6-way, Double door
38. Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB

complete with connections, testing and commissioning etc. as required.: Triple pole and neutral

39. Providing and fixing of Double pole modular type MCB of 25 amps Make: Legrand, Havells, Philips or equivalent.
40. Providing and fixing new modular switches and sockets of 3 pin 5/6 amp on tables and wherever required in wooden panel/reception tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent Make: Legrand, Havells, Philips or equivalent.
41. Providing and fixing new switches and sockets of 3 pin 15/16 amp on tables and wherever required in wooden panel/conference tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent.
42. Providing & Installation of Mirror optics Led Panels light 2x 40w fitting-surface (600mmx600mm) cool white 6500k Make: - Legrand, Havells, Philips or equivalent.
43. Supplying and Laying data cable Cat7 and protected with PVC sheath in the existing surface/ PVC conduit as required complete. Make: - Dlink or equivalent
44. Supply and Fixing RJ 45 Connector as required complete. Make: - Dlink or equivalent.
45. Supply and Fixing I/O plate as required complete. Make: - Dlink or equivalent.
46. Supply and Fixing I/O connector as required complete. Make: - Dlink or equivalent.
47. Supply and Fixing Patch cables for the systems with 1mtr Cat-7 cable along with wire manager as required complete. Make: - Dlink or equivalent.
48. Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required. 4 Pair.
49. Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.
50. Providing, laying, testing & commissioning of 'B' class heavy duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required.
51. Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories: Pendent Sprinkler.
52. Providing and fixing in place a prefabricated discussion table (1800 mm width x1200 mm Depth x 750 mm height) and makes for board, ply and hardware's are used as directed by the EIC.
53. Supply and installation of table having size of CPU unit (1500mm (L)x 750 mm (W) x 750 mm (H)) and side unit (900mm (L) x450mm (W) x 750mm (H)). Table should be made with 19 mm board, 4 mm veneer and 1 mm laminate as per approved design. (Rate should be inclusive of cost of melamine polish,selection). Make: Board, ply, veneer and laminate Greenlam/Century/Duro/Violam/Merino) (Make: Hardware-Hardwyn/Hafele/ Hettich/ Blum).
54. Chair - Thrive Plus High Back with Headrest and Coat Hanger. Supplying and placing in position chair of the following specifications. Centre-tilt syncro with tilt tension

adjustment Height adjustable lumbar support Sliding seat High Pressure Die-cast polished Aluminium Pedestal 3D armrest for ergonomic support to forearm and elbow Height adjustable headrest with Coat-Hanger. Width: 75 cm, Depth 75 cm, Height 115-130 cm, Seat height 44.50-53.50 cm. Make: - Godrej, Durian, Featherlite or equivalent.

ii) SCOPE OF WORK FOR RENOVATION OF WORK IN DGH OFFICE (IT EQUIPMENTS AND SUPPORT):

1. INTRODUCTION

Directorate General of Hydrocarbons (DGH) is an upstream advisory & technical arm under Administrative control of the Ministry of Petroleum & Natural Gas to promote sound management of the Indian petroleum and natural gas resources. Its Office is located at Tower A, OIDB Bhawan, Sector - 73, Noida (UP).

DGH proposes to carry out the replace/ upgrade the existing audio visual (to be referred to as AV hereafter) facilities at its Conference Halls at Ground Floor, Second Floor & Fourth Floor to a modern state-of-the-art set-up to present an enriching experience to the participants during local meeting, local presentation, virtual meeting through MS Teams/ Cisco Webex/ Zoom/ Skype and video conferencing with outside parties.

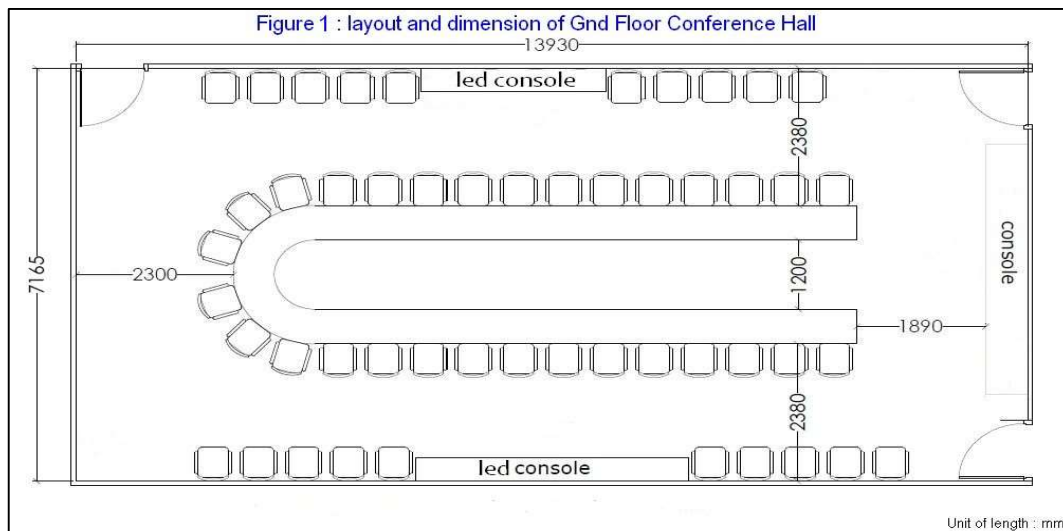
2. TURNKEY SOLUTION

Through the AV Solution envisaged in this tender, DGH desires to present a superior online collaborative experience to the users during VC Sessions, Web Meetings and during local presentations inside a Conference Hall. The winning bidder will have to take single point responsibility on turnkey basis to execute the entire scope of work comprising of Supply, Installation, Testing, Commissioning & Maintenance of the audio-visual equipment along with associated control systems as per DGH's requirement & technical specifications mentioned in this tender. The AV solution should include package of fully integrated solution including the complete hardware, software, networking, audio visual, conferencing & control systems.

3. FUNCTIONAL REQUIREMENT & BIDDER'S RESPONSIBILITIES

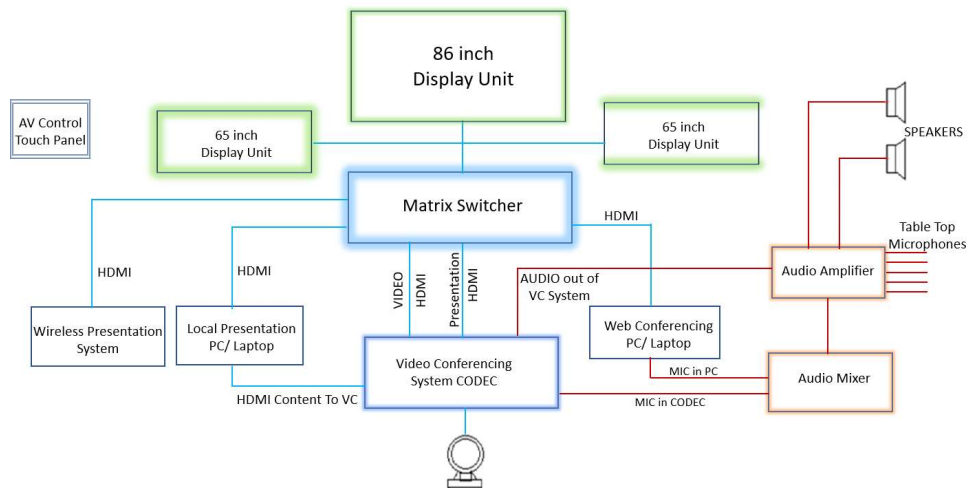
3.1 Ground Floor Conference Hall

- 3.1.1 Hall dimension is 7 mtr (W) X 14 mtr (L) approx. and Seating Capacity alongside the table is 30. The layout and dimension of the Hall is given in Figure 1.



3.1.2 A basic block schematic of the proposed AV system at Ground Floor Conference Hall is shown in Figure 2. All other equipment/accessories that are required for integration of different systems for proper operation should be included in the offered solution.

Figure 2 : Block Schematic of Ground Floor Conference Hall AV Systems



3.1.3 The bidder will have to ensure that the integrated AV solution will deliver a hassle-free experience in organising the following conferencing and presentation sessions:

1. Video conferencing
2. Web conferencing (MS Teams, Cisco WebEx, Skype, Google Meet, Zoom Meeting etc.)
3. Presentation for the local audience from Laptop/PC through HDMI.

3.1.4 The Conference Hall will have to be equipped with the following minimum equipment/facilities:

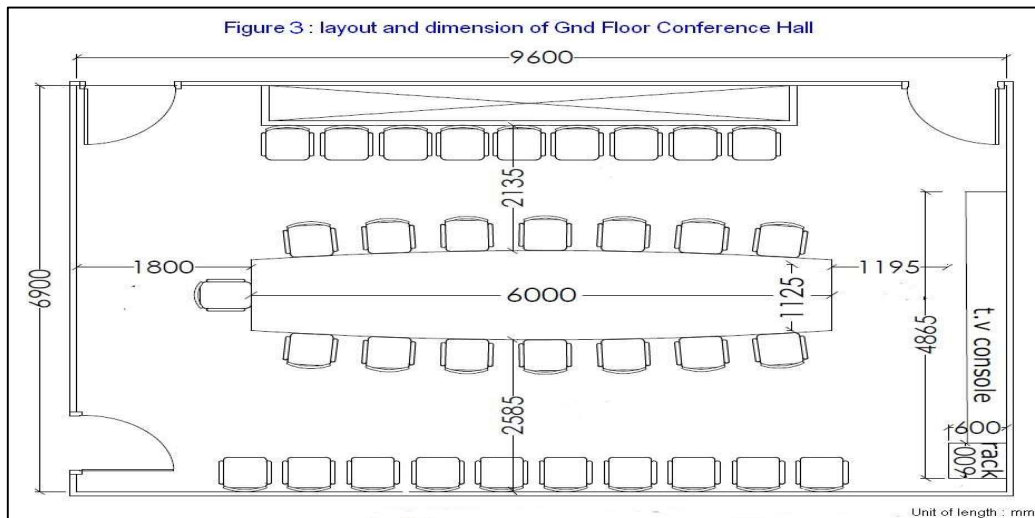
1. One large format 86" LED display unit wall-mounted at the front wall & 2 Auxiliary 65" LED display units wall-mounted in the side walls.
2. One Multiparty (Min 1 + 3) Video conferencing (VC) system to be supplied, installed & integrated.

3. Web conferencing system.
 4. Sound reinforcement system.
 5. Wireless presentation system.
- 3.1.5 The 86" LED display unit will act as the shared display system for video conferencing, web conferencing and local presentation facility.
- During local PC Presentation/ web conferencing, the 86" LED display unit content will be replicated at the 2 Auxiliary Display units (65") also; however, during Video Conferencing, the 86" LED display will show the video and the 2 Auxiliary Display units (65") will show the shared content.
- The following video sources will be connected to the display panel(s) through a Matrix Switcher to select the appropriate video source.
1. Outputs of VC system – people & content,
 2. Output of Web conferencing PC and
 3. Output of presentation PC/Laptop
- 3.1.6 A touch panel based room AV system controller should facilitate easy operation of the whole AV System. It should be possible to change the display layout of the sources and control the operation of the Conference Hall AV systems from the touch panel control system.
- 3.1.7 The PTZ camera of the VC system will be used as a common camera for both the VC and Web Conferencing applications. Necessary licenses and any equipment including converters etc. required to achieve this have to be considered, provided & integrated with the solution by the bidder.
- 3.1.8 The microphones and loudspeakers of the room will be common for video and web conferencing and local presentation applications. The audio-conferencing system output will also be integrated with the audio amplifier and loudspeakers.
- 3.1.9 Table-top boundary layer microphones should capture the local user's speech and transmit to the ceiling speakers during a local meeting/ presentation session. VC System Microphones, 2 numbers daisy chain connected for better coverage, should capture the local user's speech and transmit to far end during a Video conferencing calls.
- 3.1.10 The existing conference hall table will be used for mounting seven numbers (3 on either side of the table & 1 near the chairperson) of Cable Cubby with 1 HDMI port, 1 LAN port & 1 Universal power outlets.
- 3.1.11 Eleven numbers of Boundary Layer Microphones will have to be installed (5 on either side & 1 near the chairperson) on the conference table.
- 3.1.12 Two numbers of wireless lapel mic & two numbers of handheld Microphones are to be provided and integrated with the solution.
- 3.1.13 There will be six numbers of ceiling speakers with suitable spacing for appropriate acoustic level inside the hall.
- 3.1.14 The VC System will be equipped with two numbers of omni-directional microphones to be connected in daisy chain for complete coverage of voice of any member participating in the conference whenever he/she sings.

- 3.1.15 Plug and play type wireless presentation system will be required to facilitate easy connection of any presentation source to the display unit in wireless mode.
- 3.1.16 All equipment/accessories that are required for integration of different systems for proper operation should be meticulously planned by the bidder and included in the offered solution. Any such component(s), hardware/software, not specifically specified in the tender, but is required for commissioning of the integrated solution as per DGH's requirement, must be provided & installed by the bidder at no additional cost to DGH.
- 3.1.17 The system should have a Control System to enable the touch panel user interface i.e. Touch Panel to manage the signal routing, powering various AV equipment ON/OFF, volume control, dialer pad during a VC conferencing call/ presentation session.
- 3.1.18 Tabletop touch panel will have to be provided and integrated into the solution as part of Control System.
- 3.1.19 A Multi-Zone Lighting Control System has to installed inside the Hall to customize and choose appropriate lighting during a meeting session. Necessary lights appropriate for the corporate conference halls shall be installed & integrated with the Lighting Control System.
- 3.1.20 Matrix Switcher equipment, Digital Signal Processing System, Audio Amplifier, WiFi Access Point, LAN Switch, Transmitter/ Receiver and any other required equipment are to be supplied, installed & integrated as a single solution.
- 3.1.21 Industry standard modular cabinet (equipment rack) with front glass door should accommodate the installed AV equipment's and provide ease of access for future servicing requirements.
- 3.1.22 All necessary cables/ cable manager, connectors, converters etc are to be supplied and installed as per requirement.

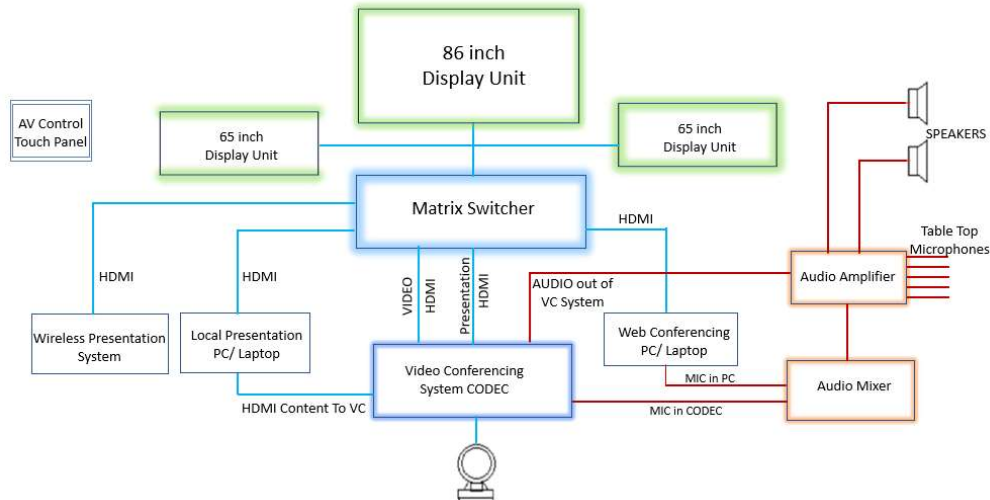
3.2 **Second Floor Conference Hall**

- 3.2.1 Hall dimension is 7 mtr (W) X 9.5 mtr (L) approx and Seating Capacity is 19. The layout and dimension of the Hall is given in Figure 3.



- 3.2.2 A basic block schematic of the proposed AV system at Second Floor Conference Hall is shown in Figure 4. All other equipment/accessories that are required for integration of different systems for proper operation should be included in the offered solution.

Figure 4 : Block Schematic of Second Floor Conference Hall AV Systems



3.2.3 The bidder will have to ensure that the integrated AV solution will deliver a hassle-free experience in organising the following conferencing and presentation sessions:

1. Video conferencing
2. Web conferencing (MS Teams, Cisco WebEx, Skype, Google Meet, Zoom Meeting etc.)
3. Presentation for the local audience as well as remote participants connected through video conferencing

3.2.4 The Conference Hall will have to be equipped with the following minimum equipment/facilities:

1. One large format 86" LED display unit wall-mounted at the front wall & 2 Auxiliary 65" LED display units wall-mounted in the side walls.
2. The existing Polycom RealPresence Group 500 Video conferencing (VC) system to be integrated with the AV Solution.
3. Web conferencing system.
4. Sound reinforcement system.
5. Wireless presentation system.

3.2.5 The 86" LED display unit will act as the shared display system for video conferencing, web conferencing and local presentation facility. Facility. While local PC Presentation the 86" LED display unit content will be replicated at the 2 Auxiliary Display units (65"), during Video Conferencing the 86" LED display will show the video and the 2 Auxiliary Display units (65") will show the shared content.

The following video sources will be connected to the display panel(s) through a Matrix Switcher to select the appropriate video source.

1. Outputs of VC system – people & content,
2. Output of Web conferencing PC and
3. Output of presentation PC/Laptop

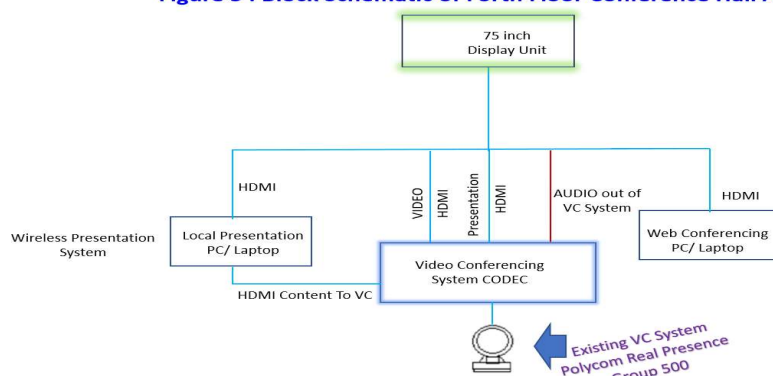
- 3.2.6 A touch panel based room AV system controller should facilitate easy operation of the whole AV System. It should be possible to change the display layout of the sources and control the operation of the Conference Hall AV systems from the touch panel control system.
- 3.2.7 The PTZ camera of the VC system will be used as a common camera for both the VC and Web Conferencing applications. Necessary licenses and any equipment including converters etc. required to achieve this have to be considered, provided & integrated with the solution by the bidder.
- 3.2.8 The microphones and loudspeakers of the room will be common for video and web conferencing and local presentation applications.
- 3.2.9 Table-top boundary layer microphones should capture the local user's speech and transmit to the ceiling speakers during a local meeting/ presentation session.VC System Microphones, 2 numbers daisy chain connected for better coverage, should capture the local user's speech and transmit to far end during a Video conferencing calls.
- 3.2.10 The existing conference hall table will be used for mounting Three numbers (equally spaced along the center of the table) of Cable Cubby with 1 HDMI port, 1 LAN port & 1 Universal power outlets.
- 3.2.11 Eleven numbers of Boundary Layer Microphones will have to be installed (5 on either side & 1 near the chairperson) on the conference table.
- 3.2.12 Two numbers of wireless lapel mic and two numbers of handheld Microphones are to be provided and integrated with the solution.
- 3.2.13 There will be four numbers of ceiling speakers with suitable spacing for appropriate acoustic level inside the hall.
- 3.2.14 Multiparty (Min 1 + 3) Video Conferencing System will have to be supplied and installed in the conference hall.
- 3.2.15 Plug and play type wireless presentation system will have to be supplied and be required to facilitate easy connection of any presentation source to the display unit in wireless mode.
- 3.2.16 All equipment/accessories that are required for integration of different systems for proper operation should be meticulously planned by the bidder and included in the offered solution. Any such component(s), hardware/software, not specifically quoted but is required for commissioning of the integrated solution as per DGH's requirement, must be provided by the bidder at no additional cost to DGH.
- 3.2.17 The system should have a Control System to enable the touch panel user interface i.e. Touch Panel to manage the signal routing, powering various AV equipment ON/OFF, volume control, dialer pad during a VC conferencing call/ presentation session.
- 3.2.18 Tabletop touch panel will have to be provided and integrated into the solution as part of Control System.
- 3.2.19 A Multi-Zone Lighting Control System has to installed inside the Hall to customize and choose appropriate lighting during a meeting session. Necessary lights appropriate for the corporate conference halls shall be installed & integrated with the Lighting Control System.
- 3.2.20 Matrix Switcher equipment, Digital Signal Processing System, Audio Amplifier, Wifi, LAN Switch, Transmitter/ Receiver and any other required equipment are to be supplied, installed & integrated as a single solution.
- 3.2.21 Industry standard modular cabinet (equipment rack) with front glass door should accommodate the installed AV equipment's and provide ease of access for future servicing requirements.
- 3.2.22 All necessary cables/ cable manager, connectors, converters etc are to be supplied and installed as per requirement.

3.3 **Fourth Floor Conference Hall**

- 3.3.1 Seating Capacity is 10 & Hall dimension is 4.4 mtr (W) X 7 mtr (L) approx.

3.3.2 A basic block schematic of the proposed AV system at Fourth Floor Conference Hall is shown in Figure 5. All other equipment/accessories that are required for integration of different systems for proper operation should be included in the offered solution

Figure 5 : Block Schematic of Forth Floor Conference Hall AV Systems



3.3.3 The existing Polycom RealPresence 500 Video Conferencing System will have to be integrated with the AV solution.

3.3.4 It will consist of one number of 4K 75-inch LED Display which would be mounted on stand/wall.

3.3.5 Necessary cables/ cable manager, connectors, converters etc are to be supplied and installed as per requirement.

3.4 **Ground Floor Reception Area**

One 4K 86" LED as the Display.

3.5 **2nd Floor DG Technical Cell Room**

One 4K 55" LED as the Display.

4. **TECHNICAL SPECIFICATIONS:**

The products to be supplied must meet the minimum specifications mentioned in the tables below. However, it will be the responsibility of the bidder to quote products with higher specifications, if required, to deliver a glitch free experience for the intended integrated solution during commissioning. Also, the bidder will be required to provide free of cost & install all such items/ products that are not explicitly mentioned in the tender/ quoted by the bidder, but are essential to deliver integrated solutions as per requirement. These will include items that are discovered necessary at the time of commissioning of the solution.

4.1 **Ground Floor Conference Hall**

1. Professional Display Panel 86-inch: Qty - 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make:	To be quoted	
2	Model:	To be quoted	
3	Screen size	≥ 86-inch (diagonal)	
4	Panel type	IPS/Direct LED	
5	Native Resolution	3840 X 2160 (4K UHD)	
6	Aspect Ratio	16:9	

7	Brightness	≥ 500 cd/m2	
8	Contrast	≥ 4000:1	
9	Viewing angle	± 178 degrees	
10	Inputs		
10.1	Video inputs	Min 3 x HDMI, 1x DP, 1x DVI	
10.2	Audio inputs	1x 3.5 mm stereo mini jack	
10.3	USB 3.0	Min 2 Nos	
12	Outputs		
12.1	Audio out	Required	
12.2	Digital	1 x DP-1/ DVI	
13	Speakers	20W (10W x 2)	
14	Safety Certification	UL,BIS,CB , EMC : FCC Class "A"	
15	Power Supply	230 ± 10 Voltage and 50Hz	
16	Mounting	Professional Wall mount bracket	

2. Auxiliary Display Panel 65-inch: Qty - 2(Two)			
#	Parameter	Specification	Complied (Yes/No)
1	Make:	To be quoted	
2	Model:	To be quoted	
3	Screen size	≥ 65-inch (diagonal)	
4	Panel type	IPS/Direct LED	
5	Native Resolution	3840 X 2160 (4K UHD)	
6	Aspect Ratio	16:9	
7	Brightness	≥ 500 cd/m2	
8	Contrast	≥ 4000:1	
9	Viewing angle	± 178 degrees	
10	Inputs		
	Video inputs	Min 3 x HDMI, 1x DP, 1x DVI	
	Audio inputs	1x 3.5 mm stereo mini jack	
	USB 3.0	Min 2 Nos.	
11	Outputs		

	Audio out	Required	
	Digital	1 x DP-1/ DVI	
12	Speakers	20W (10W x 2)	
13	Safety Certification	UL,BIS,CB , EMC : FCC Class "A"	
14	Power Supply	230 \pm 10 Voltage and 50Hz	
15	Mounting	Professional Wall mount bracket	

3. Video Conferencing System: Qty – 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Codec Protocols	The codec must be based on industry standards such as the H.323 and SIP standards for communication.	
		VC system should support interoperability and bandwidth saving using video compression H. 264 AVC/ H.264 High Profile/H.265.	
		VC System must support for dual video or Presentation sharing at 1080p@30fps using standards-based H.239 over H.323 and BFCP over	
		SIP. It should also support audio from PC used for content sharing.	
4	Codec - Minimum Audio Video Inputs requirement	1xHDCI/HDMI input for connecting main HD camera	
		1xHDMI input for connecting PC/Laptop/Document Camera/PTZ Camera to share HD content.	
		System should support minimum 1 microphone, (supporting a total of 4 microphone array)	
		1x3.5mm stereo mini (PC Audio) i.e. for content audio-in	
5	Codec - Minimum Audio Video Outputs requirement	1xHDMI for connecting to main monitor	
		3.5mm stereo output for Auxiliary audio output.	
		1xHDMI for connecting to 2nd monitor	
6	Codec - Network	1 port 10/100/1000 auto NIC (RJ-45)	
	/Interfaces requirement	Ability to make H.323 and SIP calls up to 6 Mbps	

		Should be Ipv6 ready from day one.	
7	Codec Resolution supported	Main Video: Solution should support following video resolutions - HD720p@30fps, HD720p@60fps, HD1080p@30fps, HD1080p@60fps and 4CIF	
		Content: Should support up to Full HD 1080p@60fps	
		Content resolution: Input-HD (1920 x 1080i), HD (1920 x 1080p) WSXGA+ UXGA, SXGA, WXGA, HD, XGA, SVGA Output---WUXGA, HD, WSXGA, SXGA, HD, XGA, VGA	
8	Codec - Audio Processing Requirement	Proposed VC Codec must support Wideband/AAC- LD, G.722, G.722.1, G.722.1 Annex C, G.719, G.729A and G.711 for highest audio compatibility.	
		Automatic Gain Control, Automatic Noise Suppression, Keyboard noise reduction or Equivalent shall be supported for adjusting with room environments	
9	Camera	VC room camera should support 1920x1080 (1080p) resolution.	
		The camera should support at least 10x optical zoom with auto Focus, PAN +/- 100°, Tilt +20/-32° & minimum 10 camera presets.	
		Up to 65 degree or more Horizontal Field of View	
10	USB Device Mode	It should be possible to use the VC system as an external camera and microphones when connected to a Laptop/ PC over a single USB without using any external hardware components to connect to any Cloud Based VC Platform like Cisco Webex, Zoom, Microsoft Teams, Google Meet, etc.	
11	Security	Media Encryption (H.323, SIP): AES-128, H.235.6 support.	
		Authenticated access to admin menus, web interface and APIs	
		Local account password policy configuration	
		Global Directory/ Centralised Directory/LDAP support.	
12	Licences		
	1080P licence	Supply of HD License-1080 encode/decode for people and content	
	Multiparty licence	License for 1+3 Multiparty	
	Camera cable	Camera Cable for Eagle Eye IV cameras mini- HDCI(M) to HDCI(M). 10m digital cable. Connects EagleEye IV cameras to codec.	

4. Matrix Switcher: Qty - 1(One)			
#	Parameter	Specification	Complied (Yes/No)

1	Make	To be quoted	
2	Model	To be quoted	
3	Resolution	Upto 4K, Upto 4K60 4:4:4.	
4	Inputs	<ul style="list-style-type: none"> • 8 HDMI Ports • 2 Display Port • 2 HDBaseT input 	
5	Outputs	<ul style="list-style-type: none"> • 2 HDMI outputs. • 2 HDBaseT 	
6	Switching	Smooth, constant sync glitch-free switching	
7	Compliance	HDTV & HDCP Standards, HDCP 2.2, CE, UL.	
8	Audio	Audio equalization, mixing, delay and more feature for audio processing	
9	Built-in Time Base Corrector	Stabilizes video sources with unstable sync	
10	Memory	Non Volatile (Retains last settings after powering off)	
11	Mode of switching/ scanning	<ul style="list-style-type: none"> • Auto Switching & Auto Scanning • Audio-Follow-Video (AFV) & Breakaway 	
12	Control Options	Front panel buttons/ IR remote with OSD (on-screen display)/ Ethernet with built-in Web pages /RS-232	

5. HDMI Distribution Amplifier: Qty – As per requirement			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Resolution	4K Upto 4K60 4:4:4.	
4	Input	One HDMI	
5	Output	Two HDMI	
6	Video signal	Re-build & Re-clock the video signal on output	
7	Device should support	Deep Color, x.v.Color™, Dolby® TrueHD, Dolby Digital Plus, DTS-HD®, and 7.1 multi-channel audio	

6. Multi Format Switcher Transmitter: Qty – As per requirement			
#	Parameter	Specification	Complied (Yes/No)

1	Make	To be quoted	
2	Model	To be quoted	
3	Input	2 HDMI on HDMI Connector	
4	Output	1 HDBaseT (Cat6) on RJ-45 Connector	
5	Resolution Supported	1080p & 4K@60Hz with chroma sampling of 4:2:0, Upto 4K60 4:4:4.	
6	Transmission	transmit Full-HD signal over Cat6 (HDBaseT)	
		transmit 4K signal over Cat6 (HDBaseT)	
		capable of carrying Ethernet & RS-232 as control	
		Should be a PoE transmitter, distance support upto 100m	
7	Connection type	automatically display the last active connection	
		compatible with HDTV and HDCP, HDCP 2.2, CE, UL	
8	HDMI Support	Deep Color, x.v.Color and 3D	
		Data Equalization and Reclocking	
9	Mounting	Under table mount	

7. HDMI Receiver: Qty – As per requirement			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Input	HDBaseT/twisted pair signal	
4	Output	Single/ Multiple HDMI	
5	Control	bi-directional RS-232 and IR signals	
6	Data Rate	minimum data rate of 10Gbps	
7	signal travel	HDMI Signal over 50m, distance support upto 100m	
8	Compatible Standards	HDTV and HDCP compatible, HDCP 2.2, CE, UL	
9	Resolution Support	4K & 3D pass through, Upto 4K60 4:4:4.	
10	Device should support	Deep Color, x.v.Color™, Dolby® TrueHD, Dolby Digital Plus, DTS-HD®, and 7.1 multi-channel audio	

8. Wireless Presentation Device: Qty – 1(One)			
External Wireless Presentation Device is to be interfaced with one input of Display. The Device should be capable of creating its own Wi-Fi network for displaying mobile devices like laptops/ iOS/ Android devices etc onto the Display. The laptops should be able to display their contents on the screen with the use of a clickable USB button without any need to interact with organization's local area network. In case of iOS/ Android devices, the functionality should be achievable through a downloadable app.			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Input	1 x RJ 45 (PoE enabled), 1x USB	
4	Output	1 HDMI	
5	No. of simultaneous connections	≥4	
6	Master Feature	feature to stop someone else from presenting to enable uninterrupted presentation.	
7	Wifi	Inbuilt/external Wi-Fi.	

9. Cable Cubby: Qty – 7(Seven)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Type	<ul style="list-style-type: none"> Modular Multi-Connection Solution with the retractable lid Connectors shall be gold plated 	
4	Inputs	1 x Ethernet connection	
		1 x universal AC power outlet	
		1 x HDMI, Add 1x USB-C to HDMI.	
5	Certification	Must be UL and CE listed	

10. Touch Panel for AV Control : Qty – 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Screen Size	≥6" Touch screen	
4	Mounting required	Tabletop	
5	Compliance	CE, UL, BIS	

11. AV Controller: Qty – 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Input Control Port	Minimum 4 bidirectional RS232, 4 IR, 4 Relays, 1 Ethernet port, adequate number of GPIO to control all the devices in the room	
4	In-built features	IR sensor to learn IR commands	
5		Processing power and Internal storage to store and process the control program.	
6	Compatibility	IOS/Android wireless device or wired Touch screen of any size	
7	Control port setting	Through embedded webpage	
8	Display indication	Status LED to check for Control/Connection status	
9	Compliance	UL, CE.	

12. Network Switch: Qty – 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Ethernet Port	Minimum 24*10/100/1000-Base-Tx ports	
4	Flash & Memory	The switch should support a minimum of 512 MB Memory & a minimum of 512 MB Flash.	
5	Switching bandwidth	The Switch should support a minimum of 100 Gbps of Switching Bandwidth	
6	Forwarding bandwidth	The Switch should Support Minimum Forwarding bandwidth of 50Gbps	
7	Forwarding Rate	The Switch should Support Minimum Forwarding Rate of 50Mpps	
8	Type of Ports	All Autosensing, Auto negotiating, AutoSmart Ports	
9	Jumbo Frames	Jumbo Frames support up to 9K Bytes	
10	Storm Control	Support for broadcast/multicast storm control to prevent degradation of switch performance from faulty end stations	
11	802.1Q	Should support 802.1Q protocol	

12	Type of VLANs	Should support port based VLANs	
13	VLAN Trunking Protocol or Equivalent	Should support VTP or equivalent protocol to reduce administrative burden of configuring VLANs on multiple switches	
14	No. of VLAN	Should support minimum 250 active VLANs	
15	MAC Addresses	No. of MAC Address Supported: Minimum 8000	
16	MAC Address Filtering	Should Support MAC Address Filtering based on source and destination address	
17	802.1X	Should support 802.1x Network Security and Authentication	
18	802.1x with VLAN Assignment/Guest VLAN	Should support 802.1x with VLAN Assignment/Guest VLAN features	

13. Lighting Control: Qty – 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	No. of lightning zones	Min 4	
4	Display	LED Display at Panel	
5	Preset Controls	4 preset lighting scenes	
6	Unit Capacity:	Min 2300 W	
7	Switched Live Output	Upto 800 W	
8	Lightning Control	Control any light source without an interface	

14. Boundary Layer Microphones: Qty – 11(Eleven)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Transducer type	Condenser	
4	Polar pattern	Semi-cardioid	
5	Frequency response	50 Hz – 20 KHz or better	
6	Sensitivity	15 mV/Pa or better	

7	Nominal impedance	< 200 Ohm at 1 KHz	
8	Dynamic range	84 dB or better	
9	Control	Built-in PTT, PTM, Toggle On/Off, LED status indicator	
10	Installation	Wired on-table type	

15. Lapel Microphone: Qty – 2(Two)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Feature	Wireless Lapel Microphone with True diversity receiver (UHF) & accessories	
4	Pre-set	12 Channel Pre-set or better	
5	Display	On Transmitter and Receiver	
6	RF Power output	50mW or Better	
7	Polar Pattern	Omnidirectional	
8	Carrier frequency range	500Mhz to 865Mhz	
9	Frequency response	20Hz to 20Khz	
10	Mute Button on Transmitter	Mute Button on Transmitter	
11	Operation time	Minimum 8hr	
12	Charging Contact	In body pack transmitter	
13	Receiver dynamic range	80 dB (A-weighted) Or better	
14	Switching bandwidth	Minimum 30 Mhz Or better.	

16. Handheld Microphone: Qty – 2(Two)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Feature	Handheld Wireless Microphone with True diversity receiver (UHF)	
4	Pre-set	12 Channel Pre-set or better	
5	Display	On Transmitter and Receiver	

6	RF Power output	50mW or Better	
7	Polar Pattern	Cardioid	
8	Carrier frequency range	500Mhz to 865Mhz	
9	Frequency response	20Hz to 20Khz	
10	Mute Button on Transmitter	Mute Button on Transmitter	
11	Operation time	Minimum 8hr	
12	Charging Contact	IN transmitter	
13	Receiver dynamic range	80 dB (A-weighted) Or better	
14	Switching bandwidth	Minimum 30 Mhz Or better	

17. Digital Sound Processor: Qty – 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Mic/Line Inputs	<ul style="list-style-type: none"> 12 Mic/ Line AEC Input with wide band 20Hz-22KHz Support. Shall support Noise Cancellation upto 25dB 	
4	Mic / Line Outputs	<ul style="list-style-type: none"> 8 Nos. Mic/ Line output Must be selectable from the DSP. Option to select any output channel on Mic level or line level without any external hardware. 	
5	Mix Minus Digital Expansion	<ul style="list-style-type: none"> Shall have 2 Nos x Mix Minus Full Duplex Bi-Directional bus to support Peripheral Devices and DSP expansions and shall carry Audio, Control and Power. These expansion buses shall provide native integration of wired and wireless microphones through single CAT- 5/6 or equivalent connection without any external network switch 	
6	Auto Mixer Features	<ul style="list-style-type: none"> First Mic priority based to avoid false gating and avoid tunneling sound and also shall be able to enable or disable this functionality PA Adaptive to avoid false gating of microphone for audio signals routed via speakers System shall be Adaptive Ambient to be able to monitor the ambient sound changes and set the Gating Parameters automatically. 	
7	User Editable Settings	<ul style="list-style-type: none"> User Editable Off Attenuation Setting Required User Editable Hold Time Setting Required 	
8	Gating Groups	Shareable Auto Mixer parameters such as Gating Status and Control Information available across multiple units	

9	Control	• 1 No x RJ 45 LAN Ethernet Connectivity	
		• 1 No x DB9 Connectivity for RS232 Connectivity	
		• Built-in General Purpose Inputs and Outputs for Logic Control	
		• Shall be able to assign Presets per unit for recalling various configurations	
10	System Checks	• Functionality to check the Microphone Connection, Status, Amplifier Status etc....	

18. Power Amplifier: Qty – 1(One)

#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Inputs	• 2 Inputs with individual gain • 1 balanced stereo	
4	Channel Output	2 X 100 W	
5	Feature	Individual inputs mix, EQ and HPF (High Pass Filter) per output	
6	Standby	Auto-standby with adjustable threshold	
7	Control	Controllable via Screw trimmer amplifier attenuator, RS-232 and Ethernet	
8	Band Width	full auditory bandwidth from 20Hz to 20kHz at +/- 1Db	
9	Noise Ratio	minimum - 80dB – 10dBV	
10	dynamic range	119dB or more	
11	Protection	Over current and overheat protection	

19. Speakers: Qty – 6(Six)

#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Type	Ceiling Type, 2 way ≥6.5" speaker	
4	Tweeter	≥0.5"	
5	Impedance	≥ 8 ohm	
6	Power handling	30W RMS & 80W continuous	

20. Cables, Connectors, Mounting Brackets & Accessories: Qty – As per requirement

#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Others	<ul style="list-style-type: none"> Bidder will have to provide all required Cables, Connectors, Mounting Brackets & Accessories even if they are not explicitly mentioned in the tender/ quoted by the bidder, but are required for complete integrated solutions. Bidder has to ensure that cables/ connectors/ mounting brackets/ accessories are of high quality, preferably of same Make as the associated equipment/product, so that intended superior performance of the associated equipment in particular and the overall solution as a whole is experienced. 	

21. Equipment Rack: Qty – 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Nominal height	22U	
4	Dimensions	Width 600 mm (width) x 600 mm (depth)	
5	Mounting	Floor Mounting Type	
6	Ventilation & cooling	<ul style="list-style-type: none"> Cooling facility (Min 2 fans) Top cover ventilated on all sides along the width and depth to enhance exhaust of hot air 	
7	Accessories	<ul style="list-style-type: none"> Cable Manager PDU with minimum 8 power universal sockets Front Door Toughened Glass with lock Fine texture for better finish and aesthetic look 	

22. Laptop: Qty – 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make (Commercial – Enterprise Model)	To be quoted	
2	Model	To be quoted	
3	Processor	Intel Core i7 11 th Generation	
		Base Frequency : Min 2 GHz	
		No of Cores : Min 8	
		Cache : Min 24 MB	
4	Chipset	Intel/OEM Chipset	
5	RAM	1X16 GB DDR4 3200 MHz or higher	

6	HDD	512 GB SSD	
7	Graphics	Integrated Intel UHD Graphics	
9	Display	14-inch diagonal	
		Anti-glare backlit LED	
		Full HD (1920X1080) or higher	
10	Webcam	Front HD Webcam	
11	Speaker & Microphone	Integrated HD Stereo Sound Speaker	
		Integrated Microphone	
		Headphone/Microphone Combo Jack	
12	Keyboard	Spill Resistant Keyboard	
13	Ethernet Interface	Integrated Ethernet 10/100/1000 NIC	
14	Ports	HDMI - One(1) (at least) Headphone	
		microphone Combo : One (1) (at least)	
		Power connector -One(1)	
		RJ-45/Ethernet -One(1)	
		2 USB 3.1 (at least)	
15	Wireless Connectivity	Integrated Wireless 802.11 ac dual band	
		Integrated Bluetooth 5.0 or better	
16	Operating System	Windows 10 Professional 64 Bit	
17	Power Supply	230 V, 50 Hz AC Supply	
		Rechargeable Battery Pack	
		Min 6 Hours Backup	
		3-Pin Adapter suitable for Indian Power Sockets	
18	Weight	Not more than 2.0 Kg	
19	Carry Case	Good Quality OEM Laptop Carrying Case	

4.2 **Second Floor Conference Hall**

1. Professional Display Panel 86-inch: Qty - 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make:	To be quoted	
2	Model:	To be quoted	

3	Screen size	≥ 86-inch (diagonal)	
4	Panel type	IPS/Direct LED	
5	Native Resolution	3840 X 2160 (4K UHD)	
6	Aspect Ratio	16:9	
7	Brightness	≥ 500 cd/m2	
8	Contrast	≥ 4000:1	
9	Viewing angle	± 178 degrees	
10	Inputs		
10.1	Video inputs	Min 3 x HDMI, 1x DP, 1x DVI	
10.2	Audio inputs	1x 3.5 mm stereo mini jack	
10.3	USB 3.0	Min 2 Nos	
11	Outputs		
11.1	Audio out	Required	
11.2	Digital	1 x DP-1/ DVI	
12	Speakers	20W (10W x 2)	
13	Safety Certification	UL,BIS,CB , EMC : FCC Class "A"	
14	Power Supply	230 ± 10 Voltage and 50Hz	
15	Mounting	Professional Wall mount bracket	
16	Other Accessories	Wireless Keyboard & Mouse	

2. Professional Display Panel 65-inch: Qty - 2(Two)			
#	Parameter	Specification	Complied (Yes/No)
1	Make:	To be quoted	
2	Model:	To be quoted	
3	Screen size	≥ 86-inch (diagonal)	
4	Panel type	IPS/Direct LED	
5	Native Resolution	3840 X 2160 (4K UHD)	
6	Aspect Ratio	16:9	
7	Brightness	≥ 500 cd/m2	
8	Contrast	≥ 4000:1	
9	Viewing angle	± 178 degrees	

10	Inputs		
10.1	Video inputs	Min 3 x HDMI, 1x DP, 1x DVI	
10.2	Audio inputs	1x 3.5 mm stereo mini jack	
10.3	USB 3.0	Min 2 Nos	
11	Outputs		
11.1	Audio out	Required	
11.2	Digital	1 x DP-1/ DVI	
12	Speakers	20W (10W x 2)	
13	Safety Certification	UL,BIS,CB , EMC : FCC Class "A"	
14	Power Supply	230 \pm 10 Voltage and 50Hz	
15	Mounting	Professional Wall mount bracket	
16	Other Accessories	Wireless Keyboard & Mouse	

3. Matrix Switcher: Qty - 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Resolution	Upto 4K, Upto 4K 60 4:4:4.	
4	Inputs	<ul style="list-style-type: none"> • 4 HDMI Ports • 2 Display Port • 2 HDBaseT input 	
5	Outputs	<ul style="list-style-type: none"> • 2 HDMI outputs • 2 HDBaseT 	
6	Switching	Smooth, constant sync glitch-free switching	
7	Compliance	HDTV & HDCP Standards, HDCP 2.2, CE, UL.	
8	Audio	Audio equalization, mixing, delay and more feature for audio processing	
9	Built-in Time Base Corrector	Stabilizes video sources with unstable sync	
10	Memory	Non-Volatile (Retains last settings after powering off)	
11	Mode of switching/ scanning	<ul style="list-style-type: none"> • Auto Switching & Auto Scanning • Audio-Follow-Video (AFV) & Breakaway 	
12	Control Options	Front panel buttons / IR remote with OSD (on-screen display) / Ethernet with built-in Web	

		pages / RS-232.	
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4. HDMI Distribution Amplifier: Qty – As per requirement			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Resolution	4K, Upto 4K 60 4:4:4.	
4	Input	One HDMI	
5	Output	Two HDMI	
6	Video signal	Re-build & Re-clock the video signal on output	
7	Device should support	Deep Color, x.v.Color™, Dolby® TrueHD, Dolby Digital Plus, DTS-HD®, and 7.1 multi-channel audio	

5. Multi Format Switcher Transmitter: Qty – As per requirement			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Input	2 HDMI on HDMI Connector	
4	Output	1 HDBaseT (Cat6) on RJ-45 Connector	
5	Resolution Supported	1080p & 4K@60Hz with chroma sampling of 4:2:0, Upto 4K60 4:4:4.	
6	Transmission	transmit Full-HD signal over Cat6 (HDBaseT)	
		transmit 4K signal over Cat6 (HDBaseT)	
		capable of carrying Ethernet & RS-232 as control	
		Should be a PoE transmitter, distance upto 100m	
7	Audio embedding and de-embedding	Capability of local audio embedding	
8	Connection type	automatically display the last active connection	
		compatible with HDTV and HDCP, HDCP2.2, CE, UL.	
9	HDMI Support	Deep Color, x.v.Color and 3D	
		Data Equalization and Reclocking	

10	Mounting	Under table mount	
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6. HDMI Receiver: Qty – As per requirement			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Input	HDBaseT/twisted pair signal	
4	Output	Single/ Multiple HDMI	
5	Control	bi-directional RS-232 and IR signals	
6	Data Rate	minimum data rate of 10Gbps	
7	signal travel	HDMI Signal over 50m, distance upto 100m.	
8	Compatible Standards	HDTV and HDCP compatible, HDCP2.2, CE, UL.	
9	Resolution Support	4K &3D pass through, Upto 4K60 4:4:4	
10	Device should support	Deep Color, x.v.Color™, Dolby® TrueHD, Dolby Digital Plus, DTS-HD®, and 7.1 multi-channel audio	

7. Wireless Presentation Device: Qty – 1(One)			
External Wireless Presentation Device is to be interfaced with one input of Display. The Device should be capable of creating its own Wi-Fi network for displaying mobile devices like laptops/ iOS/ Android devices etc onto the Display. The laptops should be able to display their contents on the screen with the use of a clickable USB button without any need to interact with organization's local area network. In case of iOS/ Android devices, the functionality should be achievable through a downloadable app.			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Input	1 x RJ 45 (PoE enabled), 1x USB	
4	Output	1 HDMI	
5	No. of simultaneous connections	≥4	
6	Master Feature	feature to stop someone else from presenting to enable uninterrupted presentation.	
7	Wifi	Inbuilt/external Wi-Fi.	

8. Cable Cubby: Qty – 3(Three)			
#	Parameter	Specification	Complied (Yes/No)

1	Make	To be quoted	
2	Model	To be quoted	
3	Type	<ul style="list-style-type: none"> Modular Multi-Connection Solution with the retractable lid Connectors shall be gold plated 	
4	Inputs	1 x Ethernet connection	
		1 x universal AC power outlet	
		1 x HDMI Add 1x USB-C to HDMI.	
5	Certification	Must be UL and CE listed	

9. Touch Panel for AV Control : Qty – 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Screen Size	≥6" Touch screen	
4	Mounting	Table top	
5	Compliance	CE, UL, BIS	

10. AV Controller: Qty – 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Input Control Port	Minimum 4 bidirectional RS232, 4 IR, 4 Relays, 1 Ethernet port, adequate number of GPIO to control all the devices in the room	
4	In-built features	IR sensor to learn IR commands	
5		Processing power and Internal storage to store and process the control program.	
6	Compatibility	IOS/Android wireless device or wired Touch screen of any size	
7	Control port setting	Through embedded webpage	
8	Display indication	Status LED to check for Control/Connection status	
9	Compliance	CE, UL.	

11. Network Switch: Qty – 1(One)			
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#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Ethernet Port	Minimum 24*10/100/1000-Base-Tx ports	
4	Flash & Memory	The switch should support a minimum of 512 MB Memory & a minimum of 512 MB Flash.	
5	Switching bandwidth	The Switch should support a minimum of 100 Gbps of Switching Bandwidth	
6	Forwarding bandwidth	The Switch should Support Minimum Forwarding bandwidth of 50Gbps	
7	Forwarding Rate	The Switch should Support Minimum Forwarding Rate of 50Mpps	
8	Type of Ports	All Autosensing, Auto negotiating, AutoSmart Ports	
9	Jumbo Frames	Jumbo Frames support up to 9K Bytes	
10	Storm Control	Support for broadcast/multicast storm control to prevent degradation of switch performance from faulty end stations	
11	802.1Q	Should support 802.1Q protocol	
12	Type of VLANs	Should support port based VLANs	
13	VLAN Trunking Protocol or Equivalent	Should support VTP or equivalent protocol to reduce administrative burden of configuring VLANs on multiple switches	
14	No. of VLAN	Should support minimum 250 active VLANs	
15	MAC Addresses	No. of MAC Address Supported: Minimum 8000	
16	MAC Address Filtering	Should Support MAC Address Filtering based on source and destination address	
17	802.1X	Should support 802.1x Network Security and Authentication	
18	802.1x with VLAN Assignment/Guest VLAN	Should support 802.1x with VLAN Assignment/Guest VLAN features	

12. Lighting Control: Qty – 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	

2	Model	To be quoted	
3	No. of lightning zones	Min 4	
4	Display	LED Display at Panel	
5	Preset Controls	4 preset lighting scenes	
6	Unit Capacity:	Min 2300 W	
7	Switched Live Output	Upto 800 W	
8	Lightning Control	Control any light source without an interface	

13. Boundary Layer Microphones: Qty – 11(Eleven)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Transducer type	Condenser	
4	Polar pattern	Semi-cardioid	
5	Frequency response	50 Hz – 20 KHz or better	
6	Sensitivity	15 mV/Pa or better	
7	Nominal impedance	< 200 Ohm at 1 KHz	
8	Dynamic range	84 dB or better	
9	Control	Built-in PTT, PTM, Toggle On/Off, LED status indicator	
10	Installation	Wired on-table type	

14. Lapel Microphone: Qty – 2(Two)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Feature	Wireless Lapel Microphone with True diversity receiver (UHF) & accessories	
4	Pre-set	12 Channel Pre-set or better	
5	Display	On Transmitter and Receiver	
6	RF Power output	50mW or Better	
7	Polar Pattern	Omnidirectional	

8	Carrier frequency range	500Mhz to 865Mhz	
9	Frequency response	20Hz to 20Khz	
10	Mute Button on Transmitter	Mute Button on Transmitter	
11	Operation time	Minimum 8hr	
12	Charging Contact	In body pack transmitter	
13	Receiver dynamic range	80 dB (A-weighted) Or better	
14	Switching bandwidth	Minimum 30 Mhz Or better.	

15. Digital Sound Processor: Qty – 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Mic/Line Inputs	<ul style="list-style-type: none"> 12 Mic/ Line AEC Input with wide band 20Hz-22KHz Support. Shall support Noise Cancellation upto 25dB 	
4	Mic / Line Outputs	<ul style="list-style-type: none"> 8 Nos. Mic/ Line output Must be selectable from the DSP. Option to select any output channel on Mic level or line level without any external hardware. 	
5	Mix Minus Digital Expansion	<ul style="list-style-type: none"> Shall have 2 Nos x Mix Minus Full Duplex Bi-Directional bus to support Peripheral Devices and DSP expansions and shall carry Audio, Control and Power. These expansion buses shall provide native integration of wired and wireless microphones through single CAT- 5/6 or equivalent connection without any external network switch 	
6	Auto Mixer Features	<ul style="list-style-type: none"> First Mic priority based to avoid false gating and avoid tunneling sound and also shall be able to enable or disable this functionality PA Adaptive to avoid false gating of microphone for audio signals routed via speakers System shall be Adaptive Ambient to be able to monitor the ambient sound changes and set the Gating Parameters automatically. 	
7	User Editable Settings	<ul style="list-style-type: none"> User Editable Off Attenuation Setting Required User Editable Hold Time Setting Required 	
8	Gating Groups	Shareable Auto Mixer parameters such as Gating Status and Control Information available across multiple units	
9	Control	<ul style="list-style-type: none"> 1 No x RJ 45 LAN Ethernet Connectivity 1 No x DB9 Connectivity for RS232 Connectivity Built-in General Purpose Inputs and Outputs for Logic Control Shall be able to assign Presets per unit for recalling various configurations 	

10	System Checks	<ul style="list-style-type: none"> • Functionality to check the Microphone Connection, Status, Amplifier Status etc.... 	
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16. Power Amplifier: Qty – 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Inputs	<ul style="list-style-type: none"> • 2 Inputs with individual gain • 1 balanced stereo 	
4	Channel Output	2 X 100 W	
5	Feature	Individual inputs mix, EQ and HPF (High Pass Filter) per output	
6	Standby	Auto-standby with adjustable threshold	
7	Control	Controllable via Screw trimmer amplifier attenuator, RS-232 and Ethernet	
8	Band Width	Full auditory bandwidth from 20Hz to 20kHz at +/- 1 dB	
9	Noise Ratio	Minimum : 80dB – 10dBV	
10	dynamic range	119dB or more	
11	Protection	Over current and overheat protection	

17. Speakers: Qty – 4(Four)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Type	Ceiling Type, 2 way ≥6.5" speaker	
4	Tweeter	≥0.5"	
5	Impedance	≥ 8 ohm	
6	Power handling	30W RMS & 80W continuous	

18. Cables, Connectors, Mounting Brackets, Accessories: Qty – As per requirement			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Others	<ul style="list-style-type: none"> • Bidder will have to provide all required Cables, Connectors, Mounting Brackets & Accessories even if they are not explicitly mentioned in the tender/ quoted by the bidder, but are required 	

		for complete integrated solutions. • Bidder has to ensure that cables/ connectors/ mounting brackets/ accessories are of high quality, preferably of same Make as the associated equipment/product, so that intended superior performance of the associated equipment in particular and the overall solution as a whole is experienced.	
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19. Equipment Rack: Qty – 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make	To be quoted	
2	Model	To be quoted	
3	Nominal height	22U	
4	Dimensions	Width 600 mm (width) x 600 mm (depth)	
5	Mounting	Floor Mounting Type	
6	Ventilation & cooling	<ul style="list-style-type: none"> • Cooling facility (Min 2 fans) • Top cover ventilated on all sides along the width and depth to enhance exhaust of hot air 	
7	Accessories	<ul style="list-style-type: none"> • Cable Manager • PDU with minimum 8 power universal sockets • Front Door Toughened Glass with lock • Fine texture for better finish and aesthetic look 	

20. Laptop: Qty – 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make (Commercial – Enterprise Model)	To be quoted	
2	Model	To be quoted	
3	Processor	Intel Core i7 11 th Generation	
		Base Frequency : Min 2 GHz	
		No of Cores : Min 8	
		Cache : Min 24 MB	
4	Chipset	Intel/OEM Chipset	
5	RAM	1X16 GB DDR4 3200 MHz or Higher	
6	HDD	512 GB SSD	
7	Graphics	Integrated Intel UHD Graphics	
9	Display	14-inch diagonal	
		Anti-glare backlit LED	

		Full HD (1920X1080) or higher	
10	Webcam	Front HD Webcam	
11	Speaker & Microphone	Integrated HD Stereo Sound Speaker	
		Integrated Microphone	
		Headphone/Microphone Combo Jack	
12	Keyboard	Spill Resistant Keyboard	
13	Ethernet Interface	Integrated Ethernet 10/100/1000 NIC	
14	Ports	HDMI - One(1) (at least) Headphone	
		microphone Combo : One (1) (at least)	
		Power connector -One(1)	
		RJ-45/Ethernet -One(1)	
		2 USB 3.1 (at least)	
15	Wireless Connectivity	Integrated Wireless 802.11 ac dual band or better	
		Integrated Bluetooth 5.0 or better	
16	Operating System	Windows 10 Professional 64 Bit	
17	Power Supply	230 V, 50 Hz AC Supply	
		Rechargeable Battery Pack	
		Min 6 Hours Backup	
		3-Pin Adapter suitable for Indian Power Sockets	
18	Weight	Not more than 2.0 Kg	
19	Carry Case	Good Quality OEM Laptop Carrying Case	

4.3 **Fourth Floor Conference Hall**

1. Professional Display Panel 65-inch: Qty - 2(Two)			
#	Parameter	Specification	Complied (Yes/No)
1	Make:	To be quoted	
2	Model:	To be quoted	
3	Screen size	≥ 75-inch (diagonal)	
4	Panel type	IPS/Direct LED	
5	Native Resolution	3840 X 2160 (4K UHD)	
6	Aspect Ratio	16:9	

7	Brightness	≥ 500 cd/m2	
8	Contrast	≥ 4000:1	
9	Viewing angle	± 178 degrees	
10	Inputs		
10.1	Video inputs	Min 3 x HDMI, 1x DP, 1x DVI	
10.2	Audio inputs	1x 3.5 mm stereo mini jack	
10.3	USB 3.0	Min 2 Nos.	
11	Outputs		
11.1	Audio out	Required	
11.2	Digital	1 x DP-1/ DVI	
12	Speakers	20W (10W x 2)	
13	External Control	RS232C, RJ45, IR Receiver	
14	Wifi Connectivity	Built-in	
15	Multiscreen mode:	4 PBP & PIP	
16	Media Share:	Mirroring/Miracast for screen share	
17	Safety Certification	UL,BIS,CB , EMC : FCC Class "A"	
18	Power Supply	230 ± 10 Voltage and 50Hz	
19	Mounting	Professional Wall mount bracket	
20	Other Accessories	<ul style="list-style-type: none"> Wireless Keyboard and Mouse 15 m long HDMI Cable 	

2. Laptop: Qty – 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make (Commercial – Enterprise Model)	To be quoted	
2	Model	To be quoted	
3	Processor	Intel Core i7 11 th Generation	
		Base Frequency : Min 2 GHz	
		No of Cores : Min 8	
		Cache : Min 24 MB	
4	Chipset	Intel/OEM Chipset	
5	RAM	1X16 GB DDR4 3200 MHz or higher	

6	HDD	512 GB SSD	
7	Graphics	Integrated Intel UHD Graphics	
9	Display	14-inch diagonal	
		Anti-glare backlit LED	
		Full HD (1920X1080) or higher	
10	Webcam	Front HD Webcam	
11	Speaker & Microphone	Integrated HD Stereo Sound Speaker	
		Integrated Microphone	
		Headphone/Microphone Combo Jack	
12	Keyboard	Spill Resistant Keyboard	
13	Ethernet Interface	Integrated Ethernet 10/100/1000 NIC	
14	Ports	HDMI - One(1) (at least) Headphone	
		microphone Combo : One (1) (at least)	
		Power connector -One(1)	
		RJ-45/Ethernet -One(1)	
		2 USB 3.1 (at least)	
15	Wireless Connectivity	Integrated Wireless 802.11 ac dual band	
		Integrated Bluetooth 5.0 or better	
16	Operating System	Windows 10 Professional 64 Bit	
17	Power Supply	230 V, 50 Hz AC Supply	
		Rechargeable Battery Pack	
		Min 6 Hours Backup	
		3-Pin Adapter suitable for Indian Power Sockets	
18	Weight	Not more than 2.0 Kg	
19	Carry Case	Good Quality OEM Laptop Carrying Case	

4.4 Ground Floor Reception Area

1. Professional Display Panel 86-inch: Qty - 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make:	To be quoted	
2	Model:	To be quoted	

3	Screen size	≥ 86-inch (diagonal)	
4	Panel type	IPS/Direct LED	
5	Native Resolution	3840 X 2160 (4K UHD)	
6	Aspect Ratio	16:9	
7	Brightness	≥ 500 cd/m2	
8	Contrast	≥ 4000:1	
9	Viewing angle	± 178 degrees	
10	Processor	Built in Quad Core or Higher	
11	Memory	≥8GB	
12	Inputs		
12.1	Video inputs	Min 3 x HDMI, 1x DP, 1x DVI	
12.2	Audio inputs	1x 3.5 mm stereo mini jack	
12.3	USB 3.0	Min 2 Nos	
13	Outputs		
13.1	Audio out	Required	
13.2	Digital	1 x DP-1/ DVI	
14	Speakers	20W (10W x 2)	
15	External Control	RS232C, IR Receiver	
16	Connectivity	Built-in WiFi, RJ45	
17	Multiscreen mode:	4 PBP & PIP	
18	Media Share:	Mirroring/Miracast for screen share	
19	Safety Certification	UL,BIS,CB , EMC : FCC Class "A"	
20	Power Supply	230 ± 10 Voltage and 50Hz	
21	Mounting	Professional Wall mount bracket	
22	Floor Stand	Professional grade steel frame floor stand	
23	Other Accessories	<ul style="list-style-type: none"> • Wireless Keyboard and Mouse • 15 m long HDMI Cable 	

4.5 2nd Floor DG Technical Cell Room

1. Professional Display Panel 55-inch: Qty - 1(One)			
#	Parameter	Specification	Complied (Yes/No)
1	Make:	To be quoted	

2	Model:	To be quoted	
3	Screen size	≥ 55-inch (diagonal)	
4	Panel type	IPS/Direct LED	
5	Native Resolution	3840 X 2160 (4K UHD)	
6	Aspect Ratio	16:9	
7	Brightness	≥ 500 cd/m2	
8	Contrast	≥ 4000:1	
9	Viewing angle	± 178 degrees	
10	Processor	Built in Quad Core or Higher	
11	Memory	≥8GB	
12	Inputs		
12.1	Video inputs	Min 3 x HDMI, 1x DP, 1x DVI	
12.2	Audio inputs	1x 3.5 mm stereo mini jack	
12.3	USB 3.0	Min 2 Nos	
13	Outputs		
13.1	Audio out	Required	
13.2	Digital	1 x DP-1/ DVI	
14	Speakers	20W (10W x 2)	
15	External Control	RS232C, IR Receiver	
16	Connectivity	Built-in WiFi, RJ45	
17	Multiscreen mode:	4 PBP & PIP	
18	Media Share:	Mirroring/Miracast for screen share	
19	Safety Certification	UL,BIS,CB , EMC : FCC Class "A"	
20	Power Supply	230 ± 10 Voltage and 50Hz	
21	Mounting	Professional Wall mount bracket	
22	Floor Stand	Professional grade steel frame floor stand	
23	Other Accessories	<ul style="list-style-type: none"> • Wireless Keyboard and Mouse • 15 m long HDMI Cable 	

SPECIAL CONDITIONS OF CONTRACT (SCC)

A. For Civil/ electrical/ Interior work:

1. Bidders, if required, are allowed to visit the site during office hours (10:00 hrs to 17:00 hrs) for better understanding of layout and existing structure etc. No fee shall be charged for site visit. (also refer Page no. 4 of bid document)
2. All employees of the Contractor must carry his/her valid identity card while visiting locations for carrying out the job.
3. The contractor will provide the PPE viz: dungrees, helmets, goggles, hand gloves and safety shoes to the persons deputed for the jobs.
4. Contractor shall provide all tools, tackles and machineries required for completion of job.
5. Contractor shall arrange staging/working platform/stools with proper steps/ sound ladders or scaffolding etc. wherever necessary in the work, ensuring safety measures for the work at height.
6. Contractor's personnel should strictly adhere to all the Safety Norms and COVID protocols issued by Govt./ DGH.
7. The Contractor shall procure/ supply of all the requisite materials in the work. The quality of the materials procured by the contractor shall be as per IS standard or subject to the approval of Engineer-in-charge. Only after approval, the requisite materials shall be allowed to use in the work.
8. The contractor shall obtain necessary entry/exit gate pass for men, materials, vehicles as in force & wherever applicable in requisite forms as per requirement of Noida /Delhi or local authority.
9. All materials to be incorporated in works must be approved by EIC and conform to the relevant detailed specification of CPWD and specifications contained in latest DSR including its latest supplements, if any. All taxes, royalty etc. payable for above will be to the Contractor's account.
10. The Engineer-in-Charge shall have the right to determine whether all or any of the materials are suitable for incorporation in the work. Any material procured or brought to site and not conforming to specifications and not up to the satisfaction of the Engineer-in-Charge shall be rejected and the contractor shall have to remove the same immediately from site at his own expenses and without any claim for compensation due to such rejection and replace with suitable component.
11. The Contractor shall provide adequate lighting arrangements as approved by the EIC for carrying out the work during night hours.
12. No claim of the Contractor shall be entertained for works required to be dismantled/re-done on account of negligence by the Contractor.
13. The Contractor shall provide and maintain any temporary covering required for the protection of finished/unfinished works or for any other work that may be damaged if left unprotected.
14. The Contractor shall set up / submit samples as indicated by the Site Engineer and obtain prior approval of Site Engineer before going in for manufacturing / procurement. Any delay in completion / submission of samples for getting approvals shall be contractor's responsibility. The samples as approved by the Site Engineer shall be used as accepted standard of finish and workmanship in the execution of works. However, the same shall not relieve the contractor of his responsibilities or waive Owner's right to subject materials / works to various tests and reject those not meeting specifications / requirements prescribed.

15. Where the Contractor is required to provide materials of certain sizes or weights which may have become out of market due to change over to metric unit or otherwise, substitute compared to the nearest equivalent as approved by the Owner/Site Engineer shall be used.
16. Any additional works, if any, required to be undertaken under this project, it must have prior approval of the Competent Authority. Therefore, contractor before proceeding this type of work must bring it to the notice of EIC/ HoD (HR & Admin)/ HoD (IT) for prior approval. If an additional work attracts any line item/s for which rates are not available in the Schedule of rates/Price Format/Price Schedule of the tender document, scheduled items rate available in the latest CPWD DSR will be considered in estimation for final award of additional work. However, if any non-schedule line item appears in the additional work list, rate analysis shall be prepared based on the latest CPWD DSR and three quotations (from the bonafide sellers), if required, for the required material/work for which rates are not available in latest CPWD DSR will be submitted by the contractor. Contractor must agree to carry out the work at the rate/price derived after analysis of the work/line items.
17. The Contractor shall provide all materials and/or fittings and perform any work which is obviously necessary to complete the works or which is generally provided in accordance with good trade practice even though such materials or work may not be explicitly mentioned in the specifications or shown in the drawings.
18. Where manufactures have furnished specific instructions relating to the materials used in the works and covering points not specifically mentioned in the tender document, manufacturer's instructions shall be followed.
19. For specialized nature of works the contractor may be required by the Owner/Site Engineer to get the job done through specialized agencies.
20. In case the specific sizes/thickness of various materials are not available, next higher size shall be provided without any extra cost.
21. The items of work shown in the bill quantities deemed to include all lead lift of the materials unless otherwise provided in the latest CPWD specifications.
22. The contractor should have sufficient resources (manpower and equipment etc.) to carry out the jobs.
23. The Contractor must ensure that the personnel engaged by him are of good antecedent, character and integrity. If any contractor's person is found to misbehave with the DGH representatives, the contractor will have to replace him within twenty-four hours of complaint lodged verbally or in writing by the Company's Engineer.
24. If any of the contractor's person is found to work under the influence of alcohol, contractor shall have to remove him immediately after complaint lodged verbally or in writing by the company's Engineer.
25. The bidder's own responsibility to visit site at their own cost and examine the site of required services and its surroundings and obtain all information that may be necessary for submission of responsive bid.
26. All the work shall be carried out in the best manner and wherever specifications for any item are not given, the relevant Bureau of Indian Standard Specifications shall be applicable.
27. Insurance of Contractor's Personnel is totally to the account of the contractor. DGH shall not be responsible for the insurance of contract's personnel.
28. The contractor or site supervisor must have to follow COVID-19 protocol by their worker at the work site/premises.

29. The debris of all demolition/structure has to be removed from work site at the earliest and it should not be laid at the work site or inside office premises for more than 24 hours of completion of work.
30. Contractor shall depute experienced technical supervisor to supervise the assigned work till completion of the work as per contract.
31. All tools and machinery provided by the contractor shall, when brought to the site, be deemed to be exclusive intended for execution of this work and the contractor shall not remove the same or any part thereof without the consent of the DGH representative before completion of the job.
32. After completion of the work any materials belonging to the contractor shall be removed by the contractor at own cost.
33. The contractor will ensure the work shall be carried out silently during office hours. Contractor shall be allowed to work only for 08 hrs in a shift day/night, depending on the availability of the site.
34. The contractor shall take care and precautions so as not to cause nuisance/noise to functional areas if partial areas which are completed and the same are handed over to Owner for use.
35. Any increase in rates in respect of labour and materials during execution of work shall be borne by the contractor.
36. No any work shall be carried out by the contractor on National Holidays.
37. The Contractor shall not be entitled to any compensation for any loss suffered by him on account of unforeseen delays in commencing or executing works.
38. The Contractor shall provide furniture as specified in the tender. Before the procurement, the contractor must have to obtain approval of the site in-charge for design, color, make etc.

B. For IT Solution:

39. In their own interest, Bidders are advised to visit the site (DGH) to acquaint themselves with the site conditions, assess requirement of civil & electrical, cabling work, positioning of the equipment & accessories etc. prior to submission of bids. The bidders must ensure before delivery that existing hallways, stairways, passageways, doorways, room entries etc. have sufficient size to accommodate the passage and installation of the equipment. (also refer point 12 at Page no. 4 and clause 1 of SCC of bid document)
40. The bidder shall be responsible for engineering and providing all materials, equipment and services specified or otherwise, which are required to fulfill the intent of ensuring operability, maintainability, completeness and reliability of the total work. Item wise bill of quantity (BOQ) indicated in price schedule is based on the assessed requirement. Any other equipment, material, component, accessories, licenses, services which are not specifically mentioned in price bid and technical specification but are necessary for satisfactory installation/ commissioning and trouble free operation and maintenance of the equipment/ system adopting good engineering practice shall be provided by the bidder & shall form part of the scope. No extra payment will be made for the same to the bidder by DGH.
41. The offered equipment shall be new, employing proven and established latest technology suitable for India conditions that can provide backup support for another 5 years after commissioning of the system. Certificate from OEM in this regard to be attached.
42. All equipment to be installed shall be approved for use with Indian electrical supply and local electrical equipment codes.
43. Bidder has to ensure that all requisite licenses for commissioning of the integrated solution are supplied to DGH & are perpetual in nature. These licenses must be activated prior to commissioning & testing of the AV solution.
44. All equipment and licenses shall be procured in the name of DGH.

45. The bidder shall provide and install free of cost any software upgrades which the OEM shall make available during warranty and AMC period.
46. The block diagrams in shown in figures above are tentative/ representational only. Actual place of installation of equipment shall be decided at the time of installation.
47. Bidder must quote prices for dismantling, shifting, re-installing and re-commissioning the setup from one conference room to other conference room at DGH office in Noida/ Delhi within warranty/AMC period.
48. The bidder must provide touch panel and control system source code, and system configuration files to DGH in editable format at the time of commissioning.

49. **DELIVERY**

- 52.1 All the materials & equipment have to be delivered at the following address:

**Directorate General of Hydrocarbons
OIDB Bhawan,
Tower A, Plot No.2, Sector-73,
NOIDA-201301**

- 52.2 The bidder will be responsible for supply, transportation, delivery, unload and store, move to the installation location, unpack, place assemble, secure, connect and install all equipment needed to complete the installation.
- 52.3 The insurance and freight of all the equipment of the AV infrastructure solution shall be the responsibility of the bidder.
- 52.4 All equipment delivered must be new.
- 52.5 Any equipment found to have undergone physical defect during transportation or dead on arrival at site shall be replaced by the bidder at the earliest at no extra cost.

53. DOCUMENTATION:

- 53.1 Documentation is an important requirement of the project. The bidder will take care to prepare the documents as detailed below for handing over to DGH prior to commissioning of the system location-wise.
- 53.2 The documentation shall be prepared separately for each of the locations viz. Ground Floor Conference Hall, Second Floor Conference Hall, Fourth Floor Conference Hall, Ground Floor Reception Area, Second Floor Reception Area & Second Floor Technical Cell Room.
- 53.3 The bidder will hand over the following documentation in Softcopy format prior to issuance of commissioning certificate by DGH:
- a) Operation Manuals of the integrated system with sufficient detailing.
 - b) Technical Brochure/ Manuals of individual equipment.
 - c) List of all system equipment including connectors giving at minimum details of Equipment Slno, Equipment Description, Make and Model.
 - d) Installation drawings, wiring charts, layout of cables etc. for each location separately.
 - e) Detailed Engineering Diagram, signal flow / cabling diagram indicating the complete cable routing and integration of the various equipment blocks, in the system
- 53.4 All the manuals/ documents shall be in English.

54. INSTALLTION & COMMISSIONING

The installation & commissioning at different locations will undergo the following steps:

- 54.1 Physically inspection of all the supplied hardware jointly by bidder and DGH prior to installation.
- 54.2 Post installation testing of individual sub-systems.
- 54.3 Overall system testing, functional integrity testing, Performance evaluation and acceptance.
- 54.4 These tests shall be conducted by the bidder at his own expense to demonstrate the capability, guaranteed performance and compliance with the specifications and scope. The contractor shall arrange for all consumables and experienced personnel. Copies of

the final report shall be submitted for overall system acceptance. Contractor shall give the details of System Acceptance tests / protocols for the integrated system as per the OEM recommendations.

- 54.5 Commissioning of the AV equipment will be deemed as complete at a particular site only when the same is successfully tested in accordance with the Terms & Conditions of this tender document and programming code (if any) is handed over to DGH.
- 54.6 Commissioning certificate will be issued by DGH for each site separately.

55. ACCEPTANCE OF THE ENTIRE SOLUTION

DGH shall issue final acceptance certificate for the entire solution after completion of the following milestones:

- 55.1 Commissioning Certificate is issued for all the sites:
- 55.2 Training is imparted to three (3) DGH personnel at the site on operation, administration & maintenance of the equipment.
- 55.3 The date on which such certificate is signed shall be deemed to be date of acceptance of the system.

56. WARRANTY

- 56.1 The bidder has to provide one year of warranty services to the entire solution including all components pertaining to civil, electrical, audio visual systems, display panels, video conferencing etc.
- 56.2 Warranty shall commence from the date of commissioning of the system. Since execution will have to be carried out in phases in staggered manner as suggested by DGH, warranty shall also commence in staggered manner post commissioning of the solution in phases/ different locations.
- 56.3 The bidder shall ensure that every work executed under this contract shall be free from all defects and faults in materials, workmanship etc. and shall be of the highest grade and consistent with established and accepted standards for materials and workmanship of the type ordered and full conformity with the specifications and equipment shall satisfy its intended use.
- 56.4 All the equipment, accessories etc. supplied by the bidder shall be under warranty for a period of minimum 12 months from the date of taking over the system / acceptance of the work by DGH at the site as mentioned in specifications.
- 56.5 The bidder shall provide OEM equipment warranty documents to DGH either in hardcopy format or online against DGH account login. Bidder shall provide the total maintenance of the equipment / systems during warranty period.
- 56.6 It shall be obligatory on the part of bidder to modify and/or replace any hardware and modify the operating application and diagnostics software free of cost, in case any malfunction is observed in operation during the warranty. Also, the bidder must provide all regular updates of the software and upgrade the same during warranty and AMC period.
- 56.7 During the entire duration of warranty/ AMC period, contractor has to depute one technician at DGH from 9:30 hours to 18:00 hours at DGH, Noida on all working days. In case of urgent requirement, the technician shall render the services beyond the normal working hours/working days without any extra charges to DGH. Continuous manning of technician is to be ensured i.e. posting of another technician in case the incumbent technician is on leave, training, sickness, etc. The technician shall strictly follow DGH holiday calendar. In case of leave of technician, prior approval of DGH is mandatory. However, in case of absence/ leave without any reliever penalty will be imposed @Rs. 1000/day. He will also be required to be present at DGH to provide support in any event involving the AV equipment. The technician must have two (2) years of experience in the field of AV equipment & must be well versed with the operation & maintenance aspects of the offered solution. DGH reserves the right to seek replacement if the deputed resource is not found satisfactory. DGH will provide office space for the resource person. However, providing any equipment/ tools etc. required to discharge his

responsibilities will be the sole responsibility of the bidder. Responsibilities of the technician would include the following minimum tasks:

- a) Assisting in smooth operation/usage of the systems during various events organized by DGH users.
- b) Preventive maintenance of the systems for proactive monitoring of the systems.
- c) Resolving technical issue pertaining to any AV equipment/ component/ accessory at site.
- d) Liaison work with OEM/ bidder's technical team if a technical issue needs to be escalated.

57. ANNUAL MAINTENANCE CONTRACT

- 57.1 The bidder shall provide post warranty comprehensive onsite Annual Maintenance contract for a period of 3 years, for the entire solution including all components pertaining to civil, electrical facilities, display panels, video conferencing, control systems, audio-visual systems and all other equipment etc.
- 57.2 Any breakdown of the system or part of the system shall be attended immediately and resolved within a period of 24 hours for minor equipment failure and 48 hours for major equipment failure. Systems related to LED Display, touch pad, Switcher/Scaler, Digital Signal Processor (DSP), Video Conferencing shall be treated as major equipment and other equipment accessories as minor equipment.
- 57.3 The payment for AMC shall be released quarterly upon successful delivery of satisfactory services.
- 57.4 A penalty @ Rs. 1000/- per day will be levied in case the AV system in the designated locations is non-functional due to any equipment failure/ software malfunctioning etc. subject to ceiling of 10% of AMC value. Payment of quarterly AMC charges will be made after deduction of AMC charges on pro-rata basis for shut down period.
- 57.5 The quoted prices for AMC for three years shall not be less than 20% of IT equipment cost including license, if any. Non- compliance of this clause will result in rejection of the bid. Bidder shall submit an undertaking in this regard in his technical offer.
- 57.6 DGH reserves the right to extend the AMC period to two more years on same rates and terms and conditions.

C. Time Schedule:

- 58. Mobilization Period: Contractor shall mobilize his resources (Men, Materials and tools etc.) within 10 days after award of LOA.
- 59. Delivery of Project: The renovation work including supply, installation and commissioning of Audio-Visual system should be carried out and completed as under:
 - i) Ground Floor Conference- 60 days from the date of start of work
 - ii) DG Technical Cell – 30 days from the date of start of work
 - iii) Second Floor Conference and Reception area – 60 days from the date of start of work
 - iv) Ground Floor Reception - 45 days from the date of start of work
 - v) Fourth Floor Conference – 30 days from the date of start of work

DGH will hand over the above mentioned space to the contractor for renovation work depending on the availability of the same. Some sites may be handed over in sequence wise or in collective manner. However, time line mentioned above for delivery of individual site should be adhered for project delivery.

D. Payment Terms:

- i) No advance payment shall be released to the contractor.
- ii) Contractor has to submit the invoices as per price schedule of the bid document.
- iii) Bills/ Tax invoice are required to be submitted by the contractor as per actual and only after handing over of the finished individual site to DGH. Total 60% of the invoiced amount against finished individual site will be released within 10 days after certification of invoice by the engineer in charge/HOD (HR & Admin) or his representative and HOD (IT) or his representative upon satisfactory completion of

- work in the respective finished site. Balance 40% payment will be released after delivery of complete project (i.e all DGH sites).
- iv) No bill for the partial work completion/ unfinished sites shall be considered for payment.
 - v) Taxes, if required, will be deducted from bills/ invoices, and payment will be made accordingly.

E. LIQUIDATED DAMAGES CLAUSE:

- i) Mobilization of resources/ Date of completion of the project shall be the essence of the contract. If the contractor fails to mobilize/deliver the project as per clause no. 58 or 59 given above or any time repudiates the contract before the expiry of such period, the purchaser may, without prejudice to any other right or remedy, available to him to recover damages for breach of the contract.
- ii) Recover from the contractor as agreed liquidated damages and not by way of penalty, a sum equivalent to 1/2% (half percent) of the total contract value per week for such delay or part thereof (this is an agreed, genuine pre-estimate of damages duly agreed by the parties) which the contractor has failed to deliver within the period fixed for mobilization/ delivery in the schedule, where mobilization/ delivery thereof is accepted after expiry of the aforesaid period. It may be noted that such recovery of liquidated damages may be up to a ceiling of 10% of total contract value which the contractor/supplier has failed to deliver within the period fixed for delivery. Liquidated damages for delay thus accrued will be recovered by the DGH as specified in the contract, from the bill for payment of the supplied goods/ services/ works submitted by the contractor in accordance with the terms of contract or otherwise. Liquidated damages will be calculated on the basis of contract price of services/materials/ works excluding duties and taxes, where such duties/taxes have been shown separately in contract/supply order.

OR

- iii) Cancel the contract/supply order or a portion thereof by serving prior notice to the contractor/supplier.

Name of Work: Renovation work at DGH office

Tender No: MM-14/2/2021-DGH/C-5478/ENQ-208

Name of the Bidder/ Bidding Firm / Company :								
<p align="center"><u>PRICE SCHEDULE</u></p> <p align="center">(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)</p>								
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST in %	TOTAL AMOUNT Without GST	TOTAL AMOUNT With GST	TOTAL AMOUNT In Words
1	2	4	5	7	14	8	9	10
1	INTERIOR WORKS OF GROUND FLOOR CONFERENCE ROOM AT DGH OFFICE - DIRECTORATE GENERAL OF HYDROCARBONS. TOWER A, PLOT NO. 2,							
2	Civil/Electrical/Furniture							
2.01	Breaking/ removing existing structure/ partions/panellings etc. & removal of malba from the existing premises as per the directions of Engineer in charge.	62.70	M ²					
2.02	Removing of wooden flooring & removal of old cables and doing proper finishes of junction box & raceway therein	99.80	Mtr					
2.03	Removing of old blinds from conference room and shifting where its required.	20.10	M ²					

2.04	Dismantling aluminium / Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material within 50 meters lead as directed by Engineer-in-Charge.	30.49	M ²					
2.05	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead : For thickness of tiles above 25 mm and up to 40 mm	3.38	M ²					
2.06	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge : Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	0.46	M ³					
2.07	Repairing and refixing of door/window shutters including removal of shutter from chowkats, cutting wherever necessary, removing and refixing butt hinges on other side of frame and shutter wherever required.	3.00	Nos					
2.08	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead,for all leads including all lifts involved.	10.00	M ³					
2.09	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	0.31	M ³					
2.10	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration.	37.50	Mtr					

2.11	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : Treatment at points of contact of wood work by chemical emulsion Chlorpyrifos/ Lindane (in oil or kerosene based solution) @ 0.5litres per hole by drilling 6 mm dia holes at downward angle of 45degree at 150 mm centre to centre and sealing the same.	10	M2					
2.12	Providing 12mm cement plaster of mix:1:4 (1 cement : 4 coarse sand).	10	M2					
2.13	Providing and laying 50mm x 50mm wooden frame inside conference room both walls with 50 mm glass wool filling having density of 24. providing and fixing wooden section vertical and horizontal of 600mm X 600mm size for giving strength to outer ply and making wall structures with 12mm thick commercial ply , back side 1.00 mm thick laminate finish and front side finished with veneer. Commercial ply-greenply/century make veneer - greenply/century	63.82	M2					
2.14	Providing and laying 50mm x 50mm wooden frame inside conference room both walls with 50 mm glass wool filling having density of 24. providing and fixing wooden section vertical and horizontal of 600mm X 600mm size for giving strength to outer ply and making wall structures with 12mm thick commercial ply finished with veneer. Commercial ply-Make:- Green ply/century & veneer Make- greenply/century	65.00	M ²					
2.15	Strengthening the partition/paneling wall with additional steel framing for instalation of TV/screen. As directed by architect	80.50	Kg					
2.16	Providing and fixing of teak Wooden battons of 25mm x 19mm over the panelling as per approved design/drawing.(TEAK WOOD) as directed by interior designer	97.55	M ²					
2.17	Providing glass wall films (3M film) on the outer surface of the exisiting glazed partition walls of the conference room .	69.70	M ²					
2.18	Acoustic wall panelling for noise reduction of both walls having a nrc of .9	9.30	M ²					

2.19	Providing and fixing 12 mm thick toughened designer laquered glass pasted over wooden panelleing as directed by interior designer	13.05	M ²					
2.20	Providing and fixing of designer cutout in mdf board or ss cut out of 12mm thicknes, installed with atleast 75mm gap from the partition with the provisioning of back light, finished with desired colour & PU coat as directed by interior designer	1.00	Lumsu m					
2.21	Providing and laying of new wooden flooring with doing proper finish surface(LAMINATED WOOD) as directed by interior designer	99.80	M ²					
2.22	Providing & Laying laminated wood 75mm readymade skirting	45.72	RM					
2.23	Providing and fixing of finished SS plates of atleast 3mm thickness of 304 grade for junctions	16.51	Kg					
2.24	Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with : Udaipur green marble	4.60	M ²					
2.25	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/ (both side inclusive), fixing with clip in tiles	35.34	M ²					

	into spring 'T' with : GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation.						
2.26	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall	37.16	M ²				

	screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with : 12.5 mm thick tapered edge gypsum plain board conforming IS: 2095						
2.27	Providing and fixing of wooden board ceiling with making cove finished with veneer 4mm x 4mm proper groove of approved design as per drawing & as directed by the Architect/EIC.	24.16	M2				
2.28	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	37.23	M ²				
2.29	Providing & Applying Plaster of Paris putty of 2mm thickness over plastered surface to prepare the surface even and smooth complete.	37.16	M ²				
2.30	Applying one coat of cement primer of approved brand and manufacture on wall surface:Cement primer	37.16	M ²				
2.31	Providing and applying (Royal touch) plastic paint in ceiling of approved shade and finished 3 coats of paint. Make- Asian, Berger, Nerolac or equivalent	37.16	M ²				
2.32	Polyurethane Polishing of surface with water base after preperation of base with filler etc. complete on the wooden surface make - ica pidilite,asian, Berger or Equivalent.	132.30	M ²				

2.33	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete : 125x85x5.5 mm (heavy type)	12.00	Each					
2.34	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. (heavy type) complete.	3.00	Each					
2.35	Providing and Fixing brass Mortice Lock with handle complete Make :- Dorma, Godrej or Equivalent	3.00	Each					
2.36	Wiring for light point/ fan point/ TV point with 2 X 2.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 2.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells,Finolex or equivalent.	31.00	Point					
2.37	Wiring for light point/ fan point/ TV point with 2 X 4 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 4 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells,Finolex or equivalent.	4.00	Point					
2.38	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire. Make Havells,Finolex or equivalent.	136.00	Mtr					
2.39	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire. Make Havells,Finolex or equivalent.	55.87	Mtr					
2.40	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required : 4 X 10 sq. mm + 2 X 6 sq. mm earth wire. Make Havells,Finolex or	80.00	Mtr					

	equivalent.							
2.41	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) : 6 way , Double door	2.00	Each					
2.42	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.: Triple pole and neutral	2.00	Each					
2.43	Providing and fixing of Double pole modular type MCB of 25 amps Make: Legrand, Havells, Philips or equivalent.	2.00	Each					
2.44	Providing and fixing new modular switches and sockets of 3 pin 5/6 amp on tables and where ever required in wooden panel/reception tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent Make: Legrand, Havells, Philips or equivalent	30.00	Each					
2.45	Providing and fixing new modular switches and sockets of 3 pin 15/16 amp on tables and where ever required in wooden panel/conference tables pulling and connecting already drawn electrical wires within. (switches to be counted fro the purpose of payment) Make: Legrand, Havells, Philips or equivalent	6.00	Each					
2.46	Supply & Laying data cable Cat6 copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath including RJ 45 conector, I/O plate and I/O connector and where ever required in wooden panel/reception tables with complete connection. Make: Dlink or equivalent	85.10	Mtr					
2.47	Supply and drawing co-axial TV cable RG-6 grade, 0.7 mm. Solid copper conductor PE insulated,	32.98	Mtr					

	shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed steel/ PVC conduit as required.							
2.48	Providing and fixing of floor Junction box with GI sheets including all accessories with 3mm thick removeable cover plate fixed by screws including fixing the box with floor etc complete as per design and instruction of Engineer in charge (in ceiling / Floor) 200X200x35/ 45 mm	2.00	Each					
2.49	Providing and fixing in position the raceways of size 200 x 30 mm with 1.6 mm thick and cover with 3 mm thick including jointing patty etc in the floor all complete as per design and instructions of Engineer in charge	8.00	RMT					
2.50	Providing & Installation of Mirror optics Led Panels light 2x 40w fitting-surface (600mmx600mm) cool white 6500k Make :- Legrand, Havells, Philips or equivalent	12.00	Nos					
2.51	Providing & Installation of 12 watt panel light aluminium used not pvc. Make: Legrand, Havells, Philips or equivalent	4.00	Each					
2.52	Providing & Installation of 6 watt panel light aluminium used not pvc Make: Legrand, Havells, Philips or equivalent	4.00	Each					
2.53	Providing & Installation of 6watt cob light deep fitting led used Make: Legrand, Havells, Philips or equivalent	25.00	Nos					
2.54	Providing & Installation of Profile light 1200 mm x 35mm x 25mm	4.00	Each					
2.55	Providing & Installation of LED rope light warm white colour for coves with choke (60 watt)	24.10	Rm					
2.56	Providing, laying, testing & commissioning of 'B' class heavy duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required .	2.00	Mtr					
2.57	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories : Pendent Sprinkler	10.00	Each					

2.58	Fabrication of console made up of wooden board inside 1mm laminate and front finish with veneer as selected by architect(all complete with pu polish ,hardware hinges ,handle and channels	2	Each					
2.59	Supplying and placing in position chair of the following specifications. The seat shall be made up of 1.2 +/- 0.1 cm thick hot pressed plywood & upholstered with leather and moulded polyurethane foam. The back shall be designed with contoured lumber support for extra comfort. Size of back shall be W-53cm, H-73cm & size of seat shall be W-54.6cm x D-49cm. High Resilience (HR) foam should be used in making seat & back which shall be moulded with density 45 +/- 2 kg/m ³ and hardness load 16+/- 2 kgf as per IS: 7888 for 25% compression. The seat and back should be arrested together with spine made of 0.8 +/- 0.05 cm thick HR steel and should be powder coated in black with 40-60 micron DFT (Dry film thickness). The armrest assembly should be made up of armrest tube, PU armrest and the armrest top. The armrest tube assy. shall be made of 2.54+/- 0.03cm x 0.16 +/- 0.0128 cm M.S E.R.W support tubes and chrome plated. The P.U armrest shall be made up of black integral skin polyurethane with 50-70 shore 'A' hardness reinforced with M.S insert. The armrest top shall be made up of ABS & upholstered with foam & leather. The mechanism of the chair shall have following features : 360° revolving type without back tilt. The chair shall be provided with pneumatic height adjustment which shall have stroke of 12.0 +/- 0.3 cm. The below should be made up of 3 piece telescopic type & injection moulded in black polypropylene. The pedestal shall be made of die-cast aluminium with buffing finish. it shall be fitted with 5 nos twin wheel castor. The size of the pedestal shall be 67.0 +/- 0.5 cm pitch-centre-dia (77.0 +/- 1.0 cm with castors). The twin wheel castors shall be made of Nylon injection moulded in black color. Overall dimensions of Chair shall	56.00	nos.					

	be, Width of Chair - 77cm, Depth of Chair - 77 cm as measured from pedestal below. Height of back from ground - min 99.4 to max 111.4 cms. Seat height - min 43.4cm to max 55.4 cm. Dimensions tolerance / variations shall be within +/- 1 cm. Make :- Godrej, Durian, Feather lite or equivalent.							
2.60	Modifying the existing conference table to conceal the existing raceways with wooden planks of 19mm thickness running along the table top. Planks to be of same finish as that of the existing colour of the table. Job also to include fabrication of customised vertical wooden raceway of approx size 100mm (width) x 100mm (depth) x 750mm (height) duly finished to existing table finish for each cable manager (7nos).	1.00	Lumsu m					
2.61	Making provision for microphone & push buttons for VC by drilling/cutting relevent wooden section holes as per the IT requirement and facilitating the insertion of them. Job also to include removal of old cable manager & making provision for new cable manager and making tables suitable for conference room	1.00	Lumsu m					
2.62	Providing & placing artifacts, DGH Logo etc. of approved shade & design	1.00	nos.					
2.63	Providing and fixning of designer Paintings	1.00	nos.					
3	IT Solution							
3.01	Professional Display Panel 86-inch	1	No					
3.02	Auxiliary Display Panel 65-inch	2	No					

3.03	Video Conferencing System	1	No					
3.04	Matrix Switcher	1	No					
3.05	HDMI Distribution Amplifier	1	No					
3.06	Multi Format Switcher Transmitter	1	No					
3.07	HDMI Receiver	1	No					
3.08	Wireless Presentation Device	1	No					
3.09	Cable Cubby	7	No					
3.1	Touch Panel for AV Control	1	No					
3.11	AV Controller	1	No					
3.12	Network Switch	1	No					
3.13	Wi-Fi Access Point	1	No					
3.14	Lighting Control	1	No					
3.15	Boundary Layer Microphones	11	No					
3.16	Lapel Microphone	2	No					
3.17	Handheld Microphone	2	No					
3.18	Digital Sound Processor	1	No					
3.19	Power Amplifier	1	No					
3.2	Speakers	6	No					
3.21	Cables, Connectors, Mounting Brackets & Accessories	1	Lumpsu m					
3.22	Equipment Rack	1	No					
3.23	Laptop	1	No					
3.24	Any Other Item including Licenses etc	1	Lumpsu m					
4	INTERIOR WORKS OF SECOND FLOOR CONFERENCE ROOM AT DGH OFFICE - DIRECTORATE GENERAL OF HYDROCARBONS. TOWER A, PLOT NO. 2,							
5	Civil/Electrical/Furniture							
5.01	Breaking/ removing existing structure/ partions/panellings etc. & removal of malba from the existing premises as per the directions of Engineer in charge.	62.70	M ²					
5.02	Removing of wooden flooring & removal of old cables and doing proper finishes of junction box & raceway therein	66.24	Mtr					
5.03	Removing of old blinds from conference room and shifting where its required.	20.10	M ²					
5.04	Dismantling aluminium / Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-Charge.	30.49	M ²					
5.05	Repairing and refixing of door/window shutters including removal of shutter from chowkats, cutting wherever necessary,	3.00	No					

	removing and refixing butt hinges on other side of frame and shutter wherever required.							
5.06	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead,for all leads including all lifts involved.	10.00	M ³					
5.07	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration.	37.50	Mtr					
5.08	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/ Lindane (in oil or kerosene based solution) @ 0.5litres per hole by drilling 6 mm dia holes at downward angle of 45degree at 150 mm centre to centre and sealing the same.	10	M ²					
5.09	Providing 12mm cement plaster of mix:1:4 (1 cement : 4 coarse sand).	10	M ²					
5.1	Providing and laying 50mm x 50mm wooden frame inside conference room both walls with 50 mm glass wool filling having density of 24. providing and fixing wooden section vertical and horizontal of 600mm X 600mm size for giving strength to outer ply and making wall structures with 12mm thick commercial ply , back side 1.00 mm thick laminate finish and front side finished with veneer. Commercial ply-greenply/century make veneer - greenply/century	54.90	M ²					

5.11	Providing and laying 50mm x 50mm wooden frame inside conference room both walls with 50 mm glass wool filling having density of 24. providing and fixing wooden section vertical and horizontal of 600mm X 600mm size for giving strength to outer ply and making wall structures with 12mm thick commercial ply finished with veneer. Commercial ply-Make:- Green ply/century & veneer Make- greenply/century	60.19	M ²					
5.12	Strengthening the partition/paneling wall with additional steel framing for instalation of TV/screen. As directed by architect	80.50	Kg					
5.13	Providing glass wall films (3M film) on the outer surface of the exisiting glazed partition walls of theconference room .	59.46	M ²					
5.14	Acoustic wall panelling for noise reduction of both walls having a nrc of .9	9.29	M ²					
5.15	Providing and fixing wooden 12mm mdf designer jali with wooden moulding(for 6mm glass fixing) inside wall finish with paint and top mdf finish with pu polish as selected by interior designer (mdf designer jali size 450mm X 25mm)	6	Nos					
5.16	Providing and fixing 6 mm plain glass top of the mdf designer panel fixed with wooden moulding	11.15	M ²					
5.17	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join,	34.65	M ²					

	<p>C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/ (both side inclusive), fixing with clip in tiles into spring 'T' with : GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation.</p>							
5.18	<p>Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall</p>	37.16	M ²					

	screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with : 12.5 mm thick tapered edge gypsum plain board conforming IS: 2095 I							
5.19	Providing and fixing of wooden board ceiling with making cove finished with veneer 4mm x 4mm proper groove of approved design as per drawing & as directed by the Architect/EIC.	27.87	M ²					
5.2	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	27.35	M ²					
5.21	Providing & Applying Plaster of Paris putty of 2mm thickness over plastered surface to prepare the surface even and smooth complete.	27.16	M ²					
5.22	Applying one coat of cement primer of approved brand and manufacture on wall surface:Cement primer	27.16	M ²					
5.23	Providing and applying (Royal touch) plastic paint in ceiling of approved shade and finished 3 coats of paint. Make-Asian,Berger,Nerolac or euivalent	27.69	M ²					
5.24	Polyurethane Polishing of surface with water base after preperation of base with filler etc. complete on the wooden surface make - ica pidillite,asian, Berger or Equivalent.	145.25	M ²					
5.25	Providing and laying of new wooden flooring with doing proper finish surface(LAMINATED WOOD) as directed by interior designer	73.70	M ²					

5.26	Providing & Laying laminated wood 75mm readymade skirting	45.72	RM					
5.27	Providing and fixing of finished SS plates of atleast 3mm thickness of 304 grade for junctions	16.51	M ²					
5.28	Providing and fixing Wall Paper of approved make and colour with adhesive complete as directed by EIC./ interior designer	11.15	M ²					
5.29	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete : 125x85x5.5 mm (heavy type)	12.00	Each					
5.3	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. (heavy type) complete.	3.00	Each					
5.31	Providing and Fixing brass Mortice Lock with handle complete Make :- Dorma, Godrej or Equivalent	3.00	Each					
5.32	Wiring for light point/ fan point/ TV point with 2 X 2.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 2.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells,Finolex or equivalent.	26.00	Point					
5.33	Wiring for light point/ fan point/ TV point with 2 X 4 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 4 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells,Finolex or equivalent.	7.00	Point					
5.34	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire. Make Havells,Finolex or equivalent.	136.00	Mtr					
5.35	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire. Make	55.87	Mtr					

	Havells, Finolex or equivalent.							
5.36	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required : 4 X 10 sq. mm + 2 X 6 sq. mm earth wire	80.00	Mtr					
5.37	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) : 6 way , Double door	2.00	EACH					
5.38	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.: Triple pole and neutral	2.00	EACH					
5.39	Providing and fixing of Double pole modular type MCB of 25 amps Make: Legrand, Havells, Philips or equivalent.	2.00	EACH					
5.4	Providing and fixing new modular switches and sockets of 3 pin 5/6 amp on tables and where ever required in wooden panel/reception tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent Make: Legrand, Havells, Philips or equivalent	17.00	EACH					
5.41	Providing and fixing new switches and sockets of 3 pin 15/16 amp on tables and where ever required in wooden panel/conference tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent	6.00	EACH					
5.42	Supply & Laying data cable Cat6 copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath including RJ 45 connector, I/O plate and I/O connector and where ever	65.00	Mtr					

	required in wooden panel/reception tables with complete connection. Make: Dlink or equivalent							
5.43	Supply and drawing co-axial TV cable RG-6 grade, 0.7 mm. Solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed steel/ PVC conduit as required.	32.98	Mtr					
5.44	Providing and fixing of floor Junction box with GI sheets including all accessories with 3mm thick removeable cover plate fixed by screws including fixing the box with floor etc complete as per design and instruction of Engineer in charge (in ceiling / Floor) 200X200x35/ 45 mm	2.00	Each					
5.45	Providing and fixing in position the raceways of size 200 x 30 mm with 1.6 mm thick and cover with 3 mm thick including jointing patty etc in the floor all complete as per design and instructions of Engineer in charge	6.50	RMT					
5.46	Providing & Installation of Mirror optics Led Panels light 2x 40w fitting-surface (600mmx600mm) cool white 6500k Make :- Legrand, Havells, Philips or equivalent	12.00	Nos					
5.47	Providing & Installation of 12 watt panel light aluminium used not pvc. Make: Legrand, Havells, Philips or equivalent	4.00	Each					
5.48	Providing & Installation of 6 watt panel light aluminium used not pvc Make: Legrand, Havells, Philips or equivalent	4.00	Each					
5.49	Providing & Installation of 6watt cob light deep fitting led used Make: Legrand, Havells, Philips or equivalent	20.00	Each					
5.5	Providing and installation of LED Tube light set (600mm)	12.00	Each					
5.51	Providing & Installation of LED rope light warm white colour for coves with choke (60 watt)	71.00	RM					
5.52	Providing, laying, testing & commissioning of 'B' class heavy duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :	2.00	Mtr					

5.53	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories : Pendent Sprinkler	10.00	Each					
5.54	Fabrication of console made up of wooden board inside 1mm laminate and front finish with veneer(including polish with all hardware,hinges, channels,handles) as selected by architect	1.00	Nos					
5.55	Supplying and placing in position chair of the following specifications. The seat shall be made up of 1.2 +/- 0.1 cm thick hot pressed plywood & upholstered with leather and moulded polyurethane foam. The back shall be designed with contoured lumber support for extra comfort. Size of back shall be W-53cm, H-73cm & size of seat shall be W-54.6cm x D-49cm. High Resilience (HR) foam should be used in making seat & back which shall be moulded with density 45 +/- 2 kg/m ³ and hardness load 16+/- 2 kgf as per IS: 7888 for 25% compression. The seat and back should be arrested together with spine made of 0.8 +/- 0.05 cm thick HR steel and should be powder coated in black with 40-60 micron DFT (Dry film thickness). The armrest assembly should be made up of armrest tube, PU armrest and the armrest top. The armrest tube assy. shall be made of 2.54+/- 0.03cm x 0.16 +/- 0.0128 cm M.S E.R.W support tubes and chrome plated. The P.U armrest shall be made up of black integral skin polyurethane with 50-70 shore 'A' hardness reinforced with M.S insert. The armrest top shall be made up of ABS & upholstered with foam & leather. The mechanism of the chair shall have following features : 360° revolving type without back tilt. The chair shall be provided with pneumatic height adjustment which shall have stroke of 12.0 +/- 0.3 cm. The base should be made up of 3 piece telescopic type & injection moulded in black polypropylene. The pedestal shall be made of die-cast aluminium with buffing finish. it shall be fitted with 5 nos twin wheel castor. The size of the	29.00	nos.					

	pedestal shall be 67.0 +/- 0.5 cm pitch-centre-dia (77.0 +/- 1.0 cm with castors). The twin wheel castors shall be made of Nylon injection moulded in black color. Overall dimensions of Chair shall be, Width of Chair - 77cm, Depth of Chair - 77 cm as measured from pedestal below. Height of back from ground - min 99.4 to max 111.4 cms. Seat height - min 43.4cm to max 55.4 cm. Dimensions tolerance / variations shall be within +/- 1 cm. Make :- Godrej, Durian, Feather lite or equivalent.						
5.56	Modifying the existing conference table to conceal the existing raceways with wooden planks of 19mm thickness running along the table top. Planks to be of same finish as that of the existing colour of the table. Job also to include fabrication of customised vertical wooden raceway of approx size 100mm (width) x 100mm (depth) x 750mm (height) duly finished to existing table finish for each cable manager (7nos).	1.00	LUMSU M				
5.57	Making provision for mouse microphone by drilling/cutting relevant wooden section holes as per the IT requirement and facilitating the insertion of them. Job also to include removal of old cable manager & making provision for new cable manager and making tables suitable for conference room	1.00	LUMSU M				
5.58	Providing & placing artifacts, DGH Logo etc. of approved shade & design	1.00	nos.				
5.59	Providing and fixing of designer Paintings	1.00	nos.				
6	IT Solution						
6.01	Professional Display Panel 86-inch	1	No				
6.02	Professional Display Panel 65-Inch	2	No				
6.03	Matrix Switcher	1	No				
6.04	HDMI Distribution Amplifier	1	No				
6.05	Multi Format Switcher Transmitter	1	No				
6.06	HDMI Receiver	1	No				
6.07	Wireless Presentation Device	1	No				
6.08	Cable Cubby	3	No				
6.09	Touch Panel for AV Control	1	No				
6.1	AV Controller	1	No				
6.11	Network Switch	1	No				
6.12	Lighting Control	1	No				

6.13	Boundary Layer Microphones	11	No					
6.14	Lapel Microphone	2	No					
6.15	Digital Sound Processor	1	No					
6.16	Power Amplifier	1	No					
6.17	Speakers	4	No					
6.18	Cables, Connectors, Mounting Brackets & Accessories	1	Lumpsu m					
6.19	Equipment Rack	1	No					
6.2	Laptop	1	No					
6.21	Any Other Item including Licenses etc	1	Lumpsu m					
7	INTERIOR WORKS OF FOURTH FLOOR CONFERENCE ROOM AT DGH OFFICE - DIRECTORATE GENERAL OF HYDROCARBONS. TOWER A, PLOT NO. 2,							
8	Civil/Electrical/Furniture							
8.01	Breaking/ removing existing structure/ partions/panellings etc. & removal of malba from the existing premises as per the directions of Engineer in charge.	41.25	M ²					
8.02	Removing of wooden flooring & removal of old cables and doing proper finishes of junction box & raceway therein	40.15	Mtr					
8.03	Removing of old blinds from conference room and shifting where its required.	30.10	M ²					
8.04	Dismantling aluminium / Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-Charge.	48.26	M ²					
8.05	Repairing and refixing of door/window shutters including removal of shutter from chowkats, cutting wherever necessary, removing and refixing butt hinges on other side of frame and shutter wherever required.	1.00	Nos.					
8.06	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead,for all leads including all lifts involved.	20.60	M ³					

8.07	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration.	48.50	Mtr					
8.08	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/ Lindane (in oil or kerosene based solution) @ 0.5litres per hole by drilling 6 mm dia holes at downward angle of 45degree at 150 mm centre to centre and sealing the same.	10.75	M ²					
8.09	Providing 12mm cement plaster of mix:1:4 (1 cement : 4 coarse sand).	30.80	M ²					
8.1	Providing and laying 50mm x 50mm wooden frame inside conference room both walls with 50 mm glass wool filling having density of 24. providing and fixing wooden section vertical and horizontal of 600mm X 600mm size for giving strength to outer ply and making wall structures with 12mm thick commercial ply , back side 1.00 mm thick laminate finish and front side finished with veneer. Commercial ply-greenply/century make veneer - greenply/century	47.52	M ²					
8.11	Providing and laying 50mm x 50mm wooden frame inside conference room both walls with 50 mm glass wool filling having density of 24. providing and fixing wooden section vertical and horizontal of 600mm X 600mm size for giving strength to outer ply and making wall structures with 12mm thick commercial ply finished with veneer. Commercial ply-Make:- Green ply/century & veneer Make- greenply/century	55.00	M ²					
8.12	Strengthening the partition/paneling wall with additional steel framing for instalation of TV/screen. As	80.50	Kg					

	directed by architect							
8.13	Providing glass wall films (3M film) on the outer surface of the existing glazed partition walls of the conference room .	55.75	M ²					
8.14	Acoustic wall panelling for noise reduction of both walls having a nrc of .9	9.29	M ²					
8.15	Providing and fixing 5mm bronze glass with proper bevelling fixed with wooden moulding use silicone to paste over the wooden paneling.	9.29	M ²					
8.16	providing and fixing wooden storage inside 12 mm toughened glass selves with necessary hardware inside laminate top veneer with pu polish all inclusive	2.79	M ²					
8.17	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/ (both side inclusive), fixing with clip in tiles into spring 'T' with : GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation.	22.80	M ²					

8.18	<p>Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with : 12.5 mm thick</p>	28.6	M ²					
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	tapered edge gypsum plain board conforming IS: 2095 I							
8.19	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	29.60	M ²					
8.2	Providing & Applying Plaster of Paris putty of 2mm thickness over plastered surface to prepare the surface even and smooth complete.	28.60	M ²					
8.21	Applying one coat of cement primer of approved brand and manufacture on wall surface: Cement primer	28.78	M ²					
8.22	Providing and applying (Royal touch) plastic paint in ceiling of approved shade and finished 3 coats of paint. Make-Asian,Berger,Nerolac or euivalent	29.60	M ²					
8.23	Polyurethane Polishing of surface with water base after preperation of base with filler etc. complete on the wooden surface make - ica pidilite,asian, Berger or Equivalent.	94.50	M ²					
8.24	Providing and laying of new wooden flooring with doing proper finish surface(LAMINATED WOOD) as directed by interior designer	37.16	M ²					
8.25	Providing & Laying laminated wood 75mm readymade skirting	27.43	RM					
8.26	Providing and fixing of finished SS plates of atleast 3mm thickness of 304 grade for junctions	16.50	M ²					
8.27	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete : 125x85x5.5 mm (heavy type)	4.00	Each					
8.28	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. (heavy type) complete.	1.00	Each					
8.29	Providing and Fixing brass Mortice Lock with handle complete Make :- Dorma, Godrej or Equivalent	1.00	Each					

8.3	Wiring for light point/ fan point/ TV point with 2 X 2.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 2.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells,Finolex or equivalent.	17.00	Point					
8.31	Wiring for light point/ fan point/ TV point with 2 X 4 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 4 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells,Finolex or equivalent.	4.00	Point					
8.32	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire. Make Havells,Finolex or equivalent.	220.00	Mtr					
8.33	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire. Make Havells,Finolex or equivalent.	110.00	Mtr					
8.34	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required : 4 X 10 sq. mm + 2 X 6 sq. mm earth wire	80.00	Mtr					
8.35	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) : 6 way , Double door	2.00	Each					

8.36	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.: Triple pole and neutral	2.00	Each					
8.37	Providing and fixing of Double pole modular type MCB of 25 amps Make: Legrand, Havells, Philips or equivalent.	2.00	Each					
8.38	Providing and fixing new modular switches and sockets of 3 pin 5/6 amp on tables and where ever required in wooden panel/reception tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent Make: Legrand, Havells, Philips or equivalent	17.00	Each					
8.39	Providing and fixing new switches and sockets of 3 pin 15/16 amp on tables and where ever required in wooden panel/conference tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent	2.00	Each					
8.4	Supply & Laying data cable Cat6 copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath including RJ 45 connector, I/O plate and I/O connector and where ever required in wooden panel/reception tables with complete connection. Make: Dlink or equivalent	48.15	Mtr					
8.41	Supply and drawing co-axial TV cable RG-6 grade, 0.7 mm. Solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed steel/ PVC conduit as required.	32.98	Mtr					
8.42	Providing and fixing of floor Junction box with GI sheets including all accessories with 3mm thick removeable cover plate fixed by screws including fixing the box with floor etc complete as per design and instruction of Engineer in charge (in ceiling / Floor) 200X200X35/ 45 mm	1.00	Each					

8.43	Providing and fixing in position the raceways of size 200 x 30 mm with 1.6 mm thick and cover with 3 mm thick including jointing patty etc in the floor all complete as per design and instructions of Engineer in charge	4.50	RMT					
8.44	Providing & Installation of Mirror optics Led Panels light 2x 40w fitting-surface (600mmx600mm) cool white 6500k Make :- Legrand, Havells, Philips or equivalent	8.00	Nos					
8.45	Providing & Installation of 12 watt panel light aluminium used not pvc. Make: Legrand, Havells, Philips or equivalent	4.00	Each					
8.46	Providing & Installation of 6 watt panel light aluminium used not pvc Make: Legrand, Havells, Philips or equivalent	4.00	Each					
8.47	Providing & Installation of 6watt cob light deep fitting led used Make: Legrand, Havells, Philips or equivalent	16.00	Each					
8.48	Providing & Installation of 3 watt cob light deep fitting led used Make: Legrand, Havells, Philips or equivalent	10.00	Each					
8.49	Providing & Installation of 1 watt cob light deep fitting led used Make: Legrand, Havells, Philips or equivalent	9.00	Each					
8.5	Providing and installation of LED Tube light set (600mm)	12.00	Each					
8.51	Providing & Installation of LED rope light warm white colour for coves with choke (60 watt)	15.10	Rm					
8.52	Providing, laying, testing & commissioning of 'B' class heavy duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required .	2.00	Mtr					
8.53	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories : Pendent Sprinkler	10.00	Each					
8.54	Fabrication of console made up of wooden board inside 1mm laminate and front finish with veneer(including polish with all hardware,hinges, channels,handles) as selected by architect	1.00	Nos					

8.55	Modifying the existng conference table to conceal the existng raceways with wooden planks of 19mm thickness running along the table top. Planks to be of same finish as that of the existing colour of the table. Job also to include fabrication of customised vertical wooden raceway of approx size 100mm (width) x 100mm (depth) x 750mm (height) duly finished to existing table finish for each cable manager (7nos).	1.00	Lumpsu m					
8.56	Making provision for mouse microphone by drilling/cutting relevent wooden section holes as per the IT requirement and facilitating the insertion of them. Job also to include removal of old cable manager & making provision for new cable manager and making tables suitable for conference room	1.00	Lumpsu m					
8.57	Chair - Supplying and placing in position chair of the following specifications. The seat shall be made up of 1.2 +/- 0.1 cm thick hot pressed plywood & upholstered with leather and moulded polyurethane foam. The back shall be designed with contoured lumber support for extra comfort. Size of back shall be W-53cm, H-73cm & size of seat shall be W-54.6cm x D-49cm. High Resilience (HR) foam should be used in making seat & back which shall be moulded with density 45 +/- 2 kg/m ³ and hardness load 16 +/- 2 kgf as per IS: 7888 for 25% compression. The seat and back should be arrested together with spine made of 0.8 +/- 0.05 cm thick HR steel and should be powder coated in black with 40-60 micron DFT (Dry film thickness). The armrest assembly should be made up of armrest tube, PU armrest and the armrest top. The armrest tube assy. shall be made of 2.54 +/- 0.03cm x 0.16 +/- 0.0128 cm M.S E.R.W support tubes and chrome plated. The P.U armrest shall be made up of black integral skin polyurethane with 50-70 shore 'A' hardness reinforced with M.S insert. The armrest top shall be made up of ABS & upholstered with foam & leather. The mechanism of the chair shall have following features : 360° revolving type without back tilt. The chair	15.00	nos.					

	shall be provided with pneumatic height adjustment which shall have stroke of 12.0 +/- 0.3 cm. The below should be made up of 3 piece telescopic type & injection moulded in black polypropylene. The pedestal shall be made of die-cast aluminium with buffing finish. it shall be fitted with 5 nos twin wheel castor. The size of the pedestal shall be 67.0 +/- 0.5 cm pitch-centre-dia (77.0 +/- 1.0 cm with castors). The twin wheel castors shall be made of Nylon injection moulded in black color. Overall dimensions of Chair shall be, Width of Chair - 77cm, Depth of Chair - 77 cm as measured from pedestal below. Height of back from ground - min 99.4 to max 111.4 cms. Seat height - min 43.4cm to max 55.4 cm. Dimensions tolerance / variations shall be within +/- 1 cm. Make :- Godrej, Durian, Feather lite or equivalent.						
8.58	Providing & placing artifacts, DGH Logo etc. of approved shade & design	1.00	nos.				
8.59	Providing and fixing of designer Paintings	1.00	nos.				
9	IT Solution						
9.01	Professional Display Panel 65-inch	2	No				
9.02	Laptop	1	No				
9.03	Cables, Connectors, Mounting Brackets & Accessories	1	Lumpsu m				
10	INTERIOR WORKS OF GROUND FLOOR RECEPTION AT DGH OFFICE - DIRECTORATE GENERAL OF HYDROCARBONS. TOWER A, PLOT NO. 2,						
11	Civil/Electrical/Furniture						
11.01	Breaking/ removing existing structure/ partions/panellings etc. & removal of malba from the existing premises as per the directions of Engineer in charge.	94.45	M ²				
11.02	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	10.00	M ²				
11.03	Dismantling aluminium / Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by	10.00	M ²				

	Engineer-in-Charge.							
11.04	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead,for all leads including all lifts involved.	10.00	M ³					
11.05	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration.	37.01	Mtr					
11.06	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : Treatment at points of contact of wood work by chemical emulsion Chlorpyriphos/ Lindane (in oil or kerosene based solution) @ 0.5litres per hole by drilling 6 mm dia holes at downward angle of 45degree at 150 mm centre to centre and sealing the same.	10	M ²					
11.07	Providing 12mm cement plaster of mix:1:4 (1 cement : 4 coarse sand).	10	M ²					
11.08	Providing and laying 50mm x 50mm wooden frame inside reception of both walls providing and fixing wooden section vertical and horizontal of 600mm x 600mm size for giving strength to outer ply and making wall structures with 50mm thick commercial ply , front side finished with 4.00mm thk. veneer. Commercial ply-Make:- Green ply /century or equivalent & veneer Make- greenply/century or equivalent	18.12	M ²					
11.09	Providing and fixing Glass wool 50mm thick 48 KG per Cum in the existing wooden partitions including tissue paper etc	24.36	M ²					

	complete as per manufacture specification							
11.1	Strengthening the partition/paneling wall with additional steel framing for instalation of TV/screen. As directed by architect	80.5	Kg					
11.11	Providing and laying 19mm thick commerical ply fixed on wall ,wall back side necessary precaution should be taken or water proof sheet should be used top surface finished with veneer. Commercial ply-Make:- Green ply /century or equivalent & veneer Make- greenply/century or equivalent	68.77	M ²					
11.12	Providing and fixing 12 mm thick toughened designer laquered glass insde digital painting with sandwich glass pasted over wooden panelleing as directed by interior designer	17.19	M ²					
11.13	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval,	143.64	M ²					

	including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with : 12.5 mm thick tapered edge gypsum plain board conforming IS: 2095 I							
11.14	Extra for sunk or raised mouldings in the plaster of Paris (Gypsum anhydrous) ceiling.	44.85	M2					
11.15	Providing and fixing of wooden board ceiling inside veneer with 40mm x 12mm teak wood batten fixed on wooden board of approved design as per drawing & as directed by the Architect/EIC.	13.01	M ²					
11.16	Providing and fixing of wooden board fixed on ceiling ,top 5mm bronze glass with bevelled edge pasted with silicon on wooden board of approved design as per drawing & as directed by the Architect/EIC.	22.30	M ²					
11.17	Providing and laying of new 18mm thick italian marble flooring with diamond cut polish as directed by interior designer	120.78	M ²					
11.18	Providing and fixing machine cut, mirror/ eggshell polished , Marble stone work for wall lining (veneer work) including dado, skirting, risers of steps etc., in required design and pattern wherever required including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge. 18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc.	11.90	M ²					
11.19	Providing and fixing of finished SS	12.38	Kg					

	plates of atleast 3mm thickness of 304 grade for junctions							
11.2	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	92.91	M ²					
11.21	Providing & Applying Plaster of Paris putty of 2mm thickness over plastered surface to prepare the surface even and smooth complete.	92.91	M ²					
11.22	Applying one coat of cement primer of approved brand and manufacture on wall surface: Cement primer	92.91	M ²					
11.23	Providing and applying (Royal touch) plastic paint in ceiling of approved shade and finished 3 coats of paint. Make-Asian,Berger,Nerolac or euivalent	92.93	M ²					
11.24	Polyurethane Polishing of surface with water base after preperation of base with filler etc. complete on the wooden surface make - ica pidilite,asian, Berger or Equivalent.	143.07	M ²					
11.25	Wiring for light point/ fan point/ TV point with 2 X 2.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 2.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells,Finolex or equivalent.	15.00	Point					
11.26	Wiring for light point/ fan point/ TV point with 2 X 4 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 4 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells,Finolex or equivalent.	6.00	Point					
11.27	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire. Make Havells,Finolex or equivalent.	136.00	Mtr					

11.28	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire. Make Havells,Finolex or equivalent.	26.80	Mtr					
11.29	Providing and fixing of Double pole modular type MCB of 25 amps Make: Legrand, Havells, Philips or equivalent.	2.00	Each					
11.3	Providing and fixing new modular switches and sockets of 3 pin 5/6 amp on tables and where ever required in wooden panel/reception tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent Make: Legrand, Havells, Philips or equivalent	15.00	Each					
11.31	Providing and fixing new switches and sockets of 3 pin 15/16 amp on tables and where ever required in wooden panel/conference tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent	6.00	Each					
11.32	Supply & Laying data cable Cat6 copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath including RJ 45 connector, I/O plate and I/O connector and where ever required in wooden panel/reception tables with complete connection. Make: Dlink or equivalent	92.19	Mtr					
11.33	Supply and drawing co-axial TV cable RG-6 grade, 0.7 mm. Solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed steel/ PVC conduit as required.	150.00	Mtr					
11.34	Providing and fixing of floor Junction box with GI sheets including all accessories with 3mm thick removeable cover plate fixed by screws including fixing the box with floor etc complete as per design and instruction of Engineer in charge (in ceiling / Floor) 200X200x35/ 45 mm	2.00	Each					

11.35	Providing and fixing in position the raceways of size 200 x 30 mm with 1.6 mm thick and cover with 3 mm thick including jointing patty etc in the floor all complete as per design and instructions of Engineer in charge	8.85	RMT					
11.36	Providing & Installation of Mirror optics Led Panels light 300mm x 3000mm suspended with proper stringers and clamps (warm white 4000k)	1.00	No					
11.37	Providing & Installation of 12 watt panel light aluminium used not pvc. Make: Legrand, Havells, Philips or equivalent Make: Legrand, Havells, Philips or equivalent	14.00	Each					
11.38	Providing & Installation of 6 watt panel light aluminium used not pvc Make: Legrand, Havells, Philips or equivalent	6.00	Each					
11.39	Providing & Installation of 6 watt cob light deep fitting led used Make: Legrand, Havells, Philips or equivalent	20.00	Nos					
11.4	Providing & Installation of designer wall light as per drawing & as directed by the Architect Make: Legrand, Havells, Philips or equivalent	16.00	Nos					
11.41	Providing & Installation of LED rope light warm white colour for coves with choke (60 watt) as per drawing & as directed by the Architect Make: Legrand, Havells, Philips or equivalent	36.57	Rm					
11.42	Providing, laying, testing & commissioning of 'B' class heavy duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :	10.00	Mtr					
11.43	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories : Pendent Sprinkler	22.00	Each					

11.44	Providing and fixing of the Reception counter of size 4200 x 700 x 1050 mm having 2 nos drawer units . Top , sides , front , shelves and shutters are made out of 19 mm thick commercial board and 12 mm thick commercial ply for the drawers 4.00 mm thick veneer on drawer unit front & inside and inside surfaces . Teak wood lipping is to be provided on all the edges . Imported 12mm thckick corian duly polished is to be provided on the front elevation top and sides . Provided Necessary hardwares such as autoclosing hinges , drawer slides , lock and handles are also included . All exposed venner surfaces & lippings are finished with spirit polishing of approved . The item is complete with design ,drawing and instruction of engineer in charge Corian make - DU point , LG, or equivalant and ply-Make:- Green ply/century	1.00	nos.					
11.45	Providing and placing L shape Table for cctv controller and courier man size (1200mm x 600mm + 900mm X 600mm) x 750mm high - 25mm thk commercial plywood (green ply or equivalant) matching with 1 mm thk. laminate inside and outside finish with veneer (pu polishing as directed by Interor designer (Greenlam or equivalant)with lapping edge bendig ,free standing office desk with pedestal of size 450mm w x 600mm d x700mm ht. with 3 drawers (2 box + 1 file) locable with keyboard tray pencil type with/without mouse tray - plastic /metal. Necessary hardwares , provisions for spaces & cut outs for electrical conduits, socket/ switches to be made as per required etc. complete as directed by EIC.	2.00	nos.					
11.46	Providing and installing hanging crystal stone with designer tread	1.00	Set					

11.47	<p>Chairs Supplying and placing in position chair of the following specifications. The seat shall be made of Injection molded Plastic outer & inner. Plastic Inner shall be upholstered with fabric and moulded Polyurethane foam. The back shall be made of 1.2 ±0.1cm. hot-pressed plywood measured as per QA method described in OCP-QLTA-P14-18 & upholstered with fabric and moulded Polyurethane foam and back covers. The back foam shall be designed with contoured lumbar support for extra comfort. Dimensions of Back shall be: (W)46.0 cm x (H)50.5 Cm, and of Seat : (W)46.0cm x (D) 48.0 cm. The HR polyurethane foam shall be moulded with Density= 45 ±2 kg/m³ and back hardness load 12 ± 2 kgf and seat hardness load 16 ±2 as per IS:7888 for 25% compression. spine cap shall be made up of Polypropylene which covers the back frame and spine junction. The armrests shall have only Up-Down adjustment- 8.0±0.5cm (8 positions) which shall be provided in armrest structure. Armrest Top is made up of PU with metal insert fitted on the armrest structure. The adjustable tilting mechanism shall be designed with the following features:</p> <ul style="list-style-type: none"> • 360° revolving type. • Front-pivot for tilt with feet resting on ground and continuous lumbar support ensuring more comfort. • Side tilt tension adjustment can be operated in seating position. • 4-position Tilt limiter giving options of variable tilt angle to the chair (5 steps: 0° to 20° ±2° tilting). Make :- Godrej, Durian, Featherlite or equivalent. • Seat/back tilting ratio of 1:2., Seat depth adjustment shall be integrated in the seat through a sliding mechanism. The pneumatic height adjustment shall have an adjustment of 10.0 ±0.3cm. The pedestal shall be injection moulded in black 30% glass-filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal shall be 66.1 ±0.5cm. pitch-center dia (76.1 ±1.0cm with castors). The twin 	5.00	Nos.					
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	wheel castors shall be injection moulded in black Polypropylene. overall dimensions shall be as Seat Height - min 45.2 to max 55.2cm, Height - min 96.3 to max 106.3cm. Width & Depth of Chair as measured from pedestal - Width- 75.77 cm and Depth-75.77 cm. Make :- Godrej, Durian, Featherlite or equivalent.						
11.48	Sofa 1 Seater Supplying and placing in position sofa of the following specifications. Upholstery : Microfibre with Polyester Laminate Frame Material : Kiln dried wood Seat Foam : Slab stock foam with recron layer. Also bonded foam used as a supporting material beneath slab stock. Foam Density : 34 kg/ cubic m. Back Foam : Slab stock foam with recron fill at back and arms. Foam Density : 34 kg/cubic m. Webbing Material : S-spring along with nylon strips. The overall dimension of the sofa shall be 1060 mm(W) x 912 mm (D) X 830mm (H). The upholstery is made of Leatherite. The seat and backrest is filled with recron. The frame is made up of tropical wooden. Make :- Godrej, Durian or equivalent.	4	nos.				
11.49	Sofa 2 Seater Supplying and placing in position sofa of the following specifications. Upholstery : Microfibre with Polyester Laminate Frame Material : Kiln dried wood Seat Foam : Slab stock foam with recron layer. Also bonded foam used as a supporting material beneath slab stock. Foam Density : 34 kg/ cubic m. Back Foam : Slab stock foam with recron fill at back and arms. Foam Density : 34 kg/cubic m. Webbing Material : S-spring along with nylon strips. The overall dimension of the sofa shall be 1572 mm(W) x 912 mm (D) X 830mm (H). The upholstery is made of Leatherite. The seat and backrest is filled with recron. The frame is made up of tropical wooden. Make :- Godrej, Durian or equivalent.	2	nos.				

11.5	Centre table Supplying and placing in position Center table of following specifications. The overall size shall be : Width - 1000 mm, Depth-700, Height - 450 mm. Material : Glass of 12 mm thk tempered/tuffend, Solid rubber wood legs and frame, MS sheet as bottom shelf. PU Coated rubber wood parts with a clear glass. Metal frames are powder coated in shade Black to the thickness of 40-80 microns. Make :- Godrej, Durian or euivalent.	2	nos.					
11.51	Corner Table Supplying and placing in position Corner table of following specifications. Overall Size : Width - 500 mm, Depth-500, Height - 450 mm. Material : Glass of 12 mm thk tempered/tuffend, Solid rubber wood legs and frame, MS sheet as bottom shelf. PU Coated rubber wood parts with clear glass. Metal frames are powder coated in shade Black to the thickness of 40-80 microns. Make :- Godrej, Durian or euivalent.	2	nos.					
11.52	Providing & placing artifacts, DGH Logo etc. of approved shade & design	1.00	nos.					
11.53	Providing and fixning of designer Paintings	1.00	nos.					
12	IT Solution							
12.01	Professional Display Panel 86-inch	1	No					
12.02	Cables, Connectors, Mounting Brackets & Accessories	1	Lumpsu m					
13	INTERIOR WORKS OF SECOND FLOOR RECEPTION AT DGH OFFICE - DIRECTORATE GENERAL OF HYDROCARBONS. TOWER A, PLOT NO. 2,							
14	Civil/Electrical/Furniture							
14.01	Breaking/ removing existing structure/ partions/panellings etc. & removal of malba from the existing premises as per the directions of Engineer in charge.	62.70	M ²					
14.02	Dismantling aluminium / Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-Charge.	66.00	M ²					
14.03	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material	10	M ²					

	and disposal of unserviceable material within 50 metres lead.							
14.04	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	10	M ³					
14.05	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration.	37.01	Mtr					
14.06	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : Treatment at points of contact of wood work by chemical emulsion Chlorpyrifos/ Lindane (in oil or kerosene based solution) @ 0.5litres per hole by drilling 6 mm dia holes at downward angle of 45degree at 150 mm centre to centre and sealing the same.	10	M ²					
14.07	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	8.65	M ³					
14.08	Providing 12mm cement plaster of mix:1:4 (1 cement : 4 coarse sand).	28.93	M ²					
14.09	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching	18.58	M ²					

	pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels Granite of any colour and shade : Area of slab over 0.50 sqm							
14.1	Providing and laying 50mm x 50mm wooden frame inside reception of both walls providing and fixing wooden section vertical and horizontal of 600mm x 600mm size for giving strength to outer ply and making wall structures with 50mm thick commercial ply , front side finished with 4.00mm thk. veneer. Commercial ply-Make:- Green ply /century or equivalent & veneer Make- greenply/century or equivalent	88.26	M ²					
14.11	Strengthening the partition/paneling wall with additional steel framing for instalation of TV As directed by architect	40.50	Kg					
14.12	Providing and laying 19mm thick commercial ply fixed on wall ,wall back side necessary precaution should be taken or water proof sheet should be used top surface finished with veneer. Commercial ply-Make:- Green ply /century or equivalent & veneer Make- greenply/century or equivalent	16.17	M ²					
14.13	Providing and fixing 12 mm thick toughened designer laquered glass pasted over wooden panelleing as directed by interior designer	2.98	M ²					
14.14	Providing and fixing of wooden batten 35mm x 25 mm teak wood , finished with desired colour & PU coat as directed by interior designer	121.92	RM					
14.15	Providing and laying 19mm thick commercial ply fixed on wall ,wall back side necessary precaution should be taken or water proof sheet should be used top surface finished with 6 mm solid surface. Commercial ply-Make:- Green ply /century or equivalent & Solid surface Make - I.g , Merino or equivalent	7.44	M ²					
14.16	Providing and laying 19mm thick commercial ply fixed on wall ,top 5mm bronze glass with 4 mm veneer. Commercial ply-Make:- Green ply /century or equivalent &	13.01	M ²					

	veneer Make- greenply/century or equivalent							
14.17	Providing and installtion of stainless steel letters (304 grade) mounted on SS circular rods of at least 25mm dia from the supported from the wall. SS letters to be made visible from within the vertical garden as per the design. (3 letter of size approx. 450mm x 250mm)	1.00	Lumsu m					
14.18	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in	69.88	M ²					

	3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with : 12.5 mm thick tapered edge gypsum plain board conforming IS: 2095 I							
14.19	Providing and fixing of wooden board ceiling inside veneer with 5mm bronze glass pasted with silicon of approved design as per drawing & as directed by the Architect/EIC.	9.29	M2					
14.2	Providing and fixing of wooden board fixed on ceiling ,top 5mm bronze glass with bevelled edge pasted with silicon on wooden board of approved design as per drawing & as directed by the Architect/EIC.	10.22	M2					
14.21	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	36.92	M ²					
14.22	Providing & Applying Plaster of Paris putty of 2mm thickness over plastered surface to prepare the surface even and smooth complete.	37.10	M ²					
14.23	Applying one coat of cement primer of approved brand and manufacture on wall surface:Cement primer	37.10	M ²					
14.24	Providing and applying (Royal touch) plastic paint in ceiling of approved shade and finished 3 coats of paint. Make-Asian,Berger,Nerolac or euivalent	73.51	M ²					
14.25	Polyurethane Polishing of surface with water base after preperation of base with filler etc. complete on the wooden surface make - ica pidilite,asian, Berger or Equivalent.	176.00	M ²					

14.26	Wiring for light point/ fan point/ TV point with 2 X 2.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 2.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells,Finolex or equivalent.	15.00	Point					
14.27	Wiring for light point/ fan point/ TV point with 2 X 4 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 4 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells,Finolex or equivalent.	2.00	Point					
14.28	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire. Make Havells,Finolex or equivalent.	136.00	Mtr					
14.29	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire. Make Havells,Finolex or equivalent.	26.80	Mtr					
14.3	Providing and fixing of Double pole modular type MCB of 25 amps Make: Legrand, Havells, Philips or equivalent.	2.00	Each					
14.31	Providing and fixing new modular switches and sockets of 3 pin 5/6 amp on tables and where ever required in wooden panel/reception tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent Make: Legrand, Havells, Philips or equivalent	15.00	Each					
14.32	Providing and fixing new switches and sockets of 3 pin 15/16 amp on tables and where ever required in wooden panel/conference tables pulling and connecting	2.00	Each					

	already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent							
14.33	Supply & Laying data cable Cat6 copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath including RJ 45 connector, I/O plate and I/O connector and where ever required in wooden panel/reception tables with complete connection. Make: Dlink or equivalent	20.00	Mtr					
14.34	Supply and drawing co-axial TV cable RG-6 grade, 0.7 mm. Solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface / recessed steel/ PVC conduit as required.	75.00	Mtr					
14.35	Providing and fixing of floor Junction box with GI sheets including all accessories with 3mm thick removeable cover plate fixed by screws including fixing the box with floor etc complete as per design and instruction of Engineer in charge (in ceiling / Floor) 200X200x35/ 45 mm	2.00	Each					
14.36	Providing and fixing in position the raceways of size 200 x 30 mm with 1.6 mm thick and cover with 3 mm thick including jointing patty etc in the floor all complete as per design and instructions of Engineer in charge	6.50	RMT					
14.37	Providing & Installation of 12 watt panel light aluminium used not pvc. Make: Legrand, Havells, Philips or equivalent	6.00	Each					
14.38	Providing & Installation of 6 watt panel light aluminium used not pvc Make: Legrand, Havells, Philips or equivalent	6.00	Each					
14.39	Providing & Installation of 6 watt cob light deep fitting led used Make: Legrand, Havells, Philips or equivalent	12.00	Nos					
14.4	Providing & Installation of designer hanging light as per drawing & as directed by the Architect Make: Legrand, Havells, Philips or equivalent.	6.00	Each					
14.41	Providing & Installation of LED rope light warm white colour for coves with choke (60 watt) as per drawing & as directed by the Architect Make: Legrand, Havells, Philips or equivalent.	34.38	Rm					

14.42	Providing and installing uplighter with downlighter fitting as per drawing & as directed by the Architect Make: Legrand, Havells, Philips or equivalent	4.00	Each					
14.43	Fabrication of console made up of wooden board inside 1mm laminate and front finish with veneer as selected by architect(all complete with pu polish ,hardware hinges ,handle and channels	1.00	Nos					
14.44	Providing, laying, testing & commissioning of 'B' class heavy duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required.	2.00	Mtr					
14.45	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories : Pendent Sprinkler	10.00	Each					
14.46	Providing and fixing of the Reception counter of size 2400 x 700 x 1050 mm having 2 nos drawer units . Top , sides , front , shelves and shutters are made out of 19 mm thick commercial board and 12 mm thick commercial ply for the drawers . 4.00 mm thick veneer on drawer unit front & inside and inside surfaces . Teak wood lipping is to be provided on all the edges . Imported 12mm thkick corian duly polished is to be provided on the front elevation top and sides . Provided Necessary hardwares such as autoclosing hinges , drawer slides , lock and handles are also included . All exposed venner surfaces & lippings are finished with spirit polishing of approved . The item is complete with design ,drawing and instruction of engineer in charge Corian make - DU point , LG, or equivalant and ply-Make:- Green ply/century	1.00	nos.					

14.47	<p>Chairs Supplying and placing in position chair of the following specifications. The seat shall be made of Injection molded Plastic outer & inner. Plastic Inner shall be upholstered with fabric and moulded Polyurethane foam. The back shall be made of 1.2 ±0.1cm. hot-pressed plywood measured as per QA method described in OCP-QLTA-P14-18 & upholstered with fabric and moulded Polyurethane foam and back covers. The back foam shall be designed with contoured lumbar support for extra comfort. Dimensions of Back shall be: (W)46.0 cm x (H)50.5 Cm, and of Seat : (W)46.0cm x (D) 48.0 cm. The HR polyurethane foam shall be moulded with Density= 45 ±2 kg/m³ and back hardness load 12 ± 2 kgf and seat hardness load 16 ±2 as per IS:7888 for 25% compression. spine cap shall be made up of Polypropylene which covers the back frame and spine junction. The armrests shall have only Up-Down adjustment- 8.0±0.5cm (8 positions) which shall be provided in armrest structure. Armrest Top is made up of PU with metal insert fitted on the armrest structure. The adjustable tilting mechanism shall be designed with the following features:</p> <ul style="list-style-type: none"> • 360° revolving type. • Front-pivot for tilt with feet resting on ground and continuous lumbar support ensuring more comfort. • Side tilt tension adjustment can be operated in seating position. • 4-position Tilt limiter giving options of variable tilt angle to the chair (5 steps: 0° to 20° ±2° tilting). Make :- Godrej, Durian, Featherlite or equivalent. • Seat/back tilting ratio of 1:2., Seat depth adjustment shall be integrated in the seat through a sliding mechanism. The pneumatic height adjustment shall have an adjustment of 10.0 ±0.3cm. The pedestal shall be injection moulded in black 30% glass-filled Nylon and fitted with 5 nos. twin wheel castors. The pedestal shall be 66.1 ±0.5cm. pitch-center dia (76.1 ±1.0cm with castors). The twin 	1.00	nos.					
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	wheel castors shall be injection moulded in black Polypropylene. overall dimensions shall be as Seat Height - min 45.2 to max 55.2cm, Height - min 96.3 to max 106.3cm. Width & Depth of Chair as measured from pedestal - Width- 75.77 cm and Depth-75.77 cm. Make :- Godrej, Durian, Featherlite or equivalent.						
14.48	Sofa 2 Seater Supplying and placing in position sofa of the following specifications. Upholstery : Microfibre with Polyester Laminate Frame Material : Kiln dried wood Seat Foam : Slab stock foam with recron layer. Also bonded foam used as a supporting material beneath slab stock. Foam Density : 34 kg/ cubic m. Back Foam : Slab stock foam with recron fill at back and arms. Foam Density : 34 kg/cubic m. Webbing Material : S-spring along with nylon strips. The overall dimension of the sofa shall be 1572 mm(W) x 912 mm (D) X 830mm (H). The upholstery is made of Leatherite. The seat and backrest is filled with recron. The frame is made up of tropical wooden. Make :- Godrej, Durian or equivalent.	3.00	nos.				
14.49	Side Table Supplying and placing in position Corner table of following specifications. Overall Size : Width - 500 mm, Depth-500, Height - 450 mm. Material : Glass of 12 mm thk tempered/tuffend, Solid rubber wood legs and frame, MS sheet as bottom shelf. PU Coated rubber wood parts with clear glass. Metal frames are powder coated in shade Black to the thickness of 40-80 microns. Make :- Godrej, Durian or equivalent.	2	nos.				
14.5	Providing & placing artifacts, DGH Logo etc. of approved shade & design	1.00	nos.				
14.51	Providing and fixing of designer Paintings	1.00	nos.				
15	BILL OF QUANTITIES OF INTERIOR WORKS OFFICE OF DGH - DIRECTORATE GENERAL OF HYDROCARBONS FOR SECOND FLOOR D.G Cell (Room no. A- 211,A- 258 & A-212),TOWER A, PLOT NO. 2,						

	SECTOR 73, NOIDA							
16	Civil/Electrical/Furniture							
16.01	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	35.30	M ²					
16.02	Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge	3.00	Each					
16.03	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead.	46.50	M ²					
16.04	Removing of wooden flooring & removal of old cables and doing proper finishes of junction box & raceway therein	46.50	Mtr					
16.05	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	12.00	M ³					
16.06	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by the Engineerin-charge and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.60	22.20	M ²					
16.07	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture spintone/ cosmos / Hexa or equivalent of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot	37.17	M ²					

	dipped galvanised steel sections.							
16.08	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre	22.88	M ²					
16.09	Providing and fixing 50 mm x 25 mm timber framing for wall panelling of hard wood (Malaysian red/ yellow Mirandi) @ 600mm centre to centre. Necessary provisions for spaces & cut outs for electrical conduits, socket/ switches to be made as per required . The frames are duly treated with anti termite and fire retardant paint. etc complete.	12.96	M ²					
16.1	Providing & fixing 12mm thk. plywood of approved make and finished with veneer duly polished as approved on exposed faces with grooves as per design. The rates shall include all hardware, fittings, adhesives, beadings, lippings etc as directed by the EIC. Makes Kit ply / Century or equivalent.	12.96	M ²					
16.11	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Second class teak wood	0.05	M ³					
16.12	Providing and fixing cabinet, 400 mm deep, height and length as per site requirement made of 19 mm thick commercial board (Duro/Century/Donear or equivalent), with open able shutter, all shelving shall be loose and adjustable. Back shall be 12 mm thick. All exposed sides and bottom side of cabinet & inside the cabinet finished with 1.00 mm thick laminate of greenlam or equivalent approved class. All Shutter should be toughened glass with all necessary fitting Complete (Payment shall be made as per front area of the	13.93	M ²					

	cabinet)							
16.13	Providing and fixing Foot stap, height and length as per site requirement made of 19 mm thick commercial board (Duro/Century/Donear or equivalent), with Top shall be 12 mm thick ply. All exposed sides of foot rest finished with 1.00 mm thick laminate of greenlam or equivalent approved class.	4.00	Each					
16.14	Laying rectified Glazed Ceramic floor tiles 300x300mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20mm thick Cement Mortar 1:4 (1 cement : 4 Coarse sand) including pointing the joints with white cement and matching pigments etc., complete.	13.15	M ²					
16.15	Providing and laying of new wooden flooring with doing proper finish surface(LAMINATED WOOD) as directed by interior designer	43.92	M ²					
16.16	Providing & Laying laminated wood 75mm readymade skirting	31.32	RM					
16.17	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	47.47	M ²					
16.18	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	75.67	M ²					
16.19	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	51.62	M ²					
16.2	Wall painting with acrylic emulsion plastic paint of approved brand and manufacture to give an even shade : Two or more coats on new work	75.67	M ²					
16.21	Applying priming coat: With ready mixed pink or Grey primer of approved brand and manufacture	1.86	M ²					

	on wood work (hard and soft wood)							
16.22	French spirit polishing : Two or more coats on new works including a coat of wood filler	109.04	M ²					
16.23	Providing & Fixing 12mm thk Toughened glass	2.40	M ²					
16.24	Providing glass wall films (3M film) on the outer surface of the existing glazed partition walls of the conference room .	69.70	M ²					
16.25	Supply and installation of table top 12mm clear toughened glass with bevelled side edge. (CPU unit size: 1500mm x 750mm and Side unit size: 900mm x 450mm) (Make: Saint-Gobain/Modi Guard)	6.32	M ²					
16.26	Providing and fixing in position 6mm thick approved white coloured lacquered glass over existing partition / panelling with silicone etc complete as per design and manufacturer's specifications	2.45	Each					
16.27	Supply & fixing red color pinup board.	4.00	Each					
16.28	Supplying and Fixing of magnetic white board (1200mm x 2400mm)	1.00	Each					
16.29	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete : 125x85x5.5 mm (heavy type)	1.00	Each					
16.3	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. (heavy type) complete.	1.00	Each					
16.31	Providing and Fixing brass Mortice Lock with handle complete Make :- Dorma, Godrej or Equivalent	1.00	Each					
16.32	Wiring for light point/ fan point/ TV point with 2 X 2.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 2.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Make Havells, Finolex or equivalent.	24.00	Point					
16.33	Wiring for light point/ fan point/ TV point with 2 X 4 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with laminated sheet, suitable size M.S. box and earthing the point with 1 X 4 sq.mm. FRLS PVC insulated copper conductor single	2.00	Point					

	core cable etc as required. Make Havells,Finolex or equivalent.							
16.34	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire. Make Havells,Finolex or equivalent.	72.00	Mtr					
16.35	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 4 sq. mm + 1 X 4 sq. mm earth wire. Make Havells,Finolex or equivalent.	10.00	Mtr					
16.36	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required : 4 X 10 sq. mm + 2 X 6 sq. mm earth wire	6.34	Mtr					
16.37	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) : 6 way , Double door	1.00	Each					
16.38	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.: Triple pole and neutral	1.00	Each					
16.39	Providing and fixing of Double pole modular type MCB of 25 amps Make: Legrand, Havells, Philips or equivalent.	2.00	Each					
16.4	Providing and fixing new modular switches and sockets of 3 pin 5/6 amp on tables and where ever required in wooden panel/reception tables pulling and connecting already drawn electrical wires within. (switches to	17.00	Each					

	be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent Make: Legrand, Havells, Philips or equivalent							
16.41	Providing and fixing new switches and sockets of 3 pin 15/16 amp on tables and where ever required in wooden panel/conference tables pulling and connecting already drawn electrical wires within. (switches to be counted for the purpose of payment) Make: Legrand, Havells, Philips or equivalent	2.00	Each					
16.42	Providing & Installation of Mirror optics Led Panels light 2x 40w fitting-surface (600mmx600mm) cool white 6500k Make :- Legrand, Havells, Philips or equivalent	12.00	Nos					
16.43	Supplying and Laying data cable Cat7 and protected with PVC sheath in the existing surface/ PVC conduit as required complete. Make:- Dlink or equivalent	400.00	Mtr					
16.44	Supply and Fixing RJ 45 Connector as required complete. Make:- Dlink or equivalent	5.00	Each					
16.45	Supply and Fixing I/O plate as required complete. Make:- Dlink or equivalent	5.00	Each					
16.46	Supply and Fixing I/O connector as required complete. Make:- Dlink or equivalent	5.00	Each					
16.47	Supply and Fixing Patch cables for the systems with 1mtr Cat-7 cable along with wire manager as required complete. Make:- Dlink or equivalent	5.00	Each					
16.48	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required. 4 Pair	300.00	Mtr					
16.49	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	200.00	Mtr					
16.5	Providing, laying, testing & commissioning of 'B' class heavy duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with	2.00	Mtr					

	suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :							
16.51	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories : Pendent Sprinkler	10.00	Each					
16.52	Providing and fixing in place a pre-fabricated discussion table (1800 mm width x1200 mm Depth x 750 mm height) and makes for board, ply and hardwares are used as directed by the EIC.	1.00	Each					
16.53	Supply and installation of table having size of CPU unit (1500mm (L)x 750 mm (W) x 750 mm (H)) and side unit (900mm (L) x450mm (W) x 750mm (H)). Table should be made with 19 mm board, 4 mm veneer and 1 mm laminate as per approved design. (Rate should be inclusive of cost of melamine polish,selection).Make: Board, ply, veneer and laminat Greenlam/Century/Duro/Violam/Merino) (Make: Hardware-Hardwyn/Hafele/Hettich/Blum)	1.00	Each					
16.54	Chair - Thrive Plus High Back with Headrest and Coat Hanger. Supplying and placing in position chair of the following specifications. Centre-tilt syncro with tilt tension adjustment Height adjustable lumbar support Sliding seat High Pressure Die-cast polished Aluminium Pedestal 3D armrest for ergonomic support to forearm and elbow Height adjustable headrest with Coat-Hanger. Width: 75 cm, Depth 75 cm, Height 115-130 cm, Seat height 44.50-53.50 cm Make :- Godrej, Durian, Feather lite or equivalent.	16.00	Each					
17	IT Solution							
17.01	Professional Display Panel 55-inch	1	No					
17.02	Cables, Connectors, Mounting Brackets & Accessories	1	Lumpsu m					
18	AMC and Manpower							
18.01	AMC for supplied, installed and commissioned IT equipments post warranty period.	3	Year					
18.02	Shifting, re-installation and re-commissioning of AV system from the existing location/ room to another location/ room within DGH premises at Noida/ Delhi during	4	AU					

	warranty and AMC period							
18.03	Manpower	48	Months					
Total in Figures								
Quoted Rate in Words								

Note:

1. The quantities mentioned in the scope of work/ Price schedule are tentative/ indicative and for evaluation purpose only. The payment will be made as per actual.
2. Bidder must quote the price in above price schedule. Price bid received in any other format will be straightway rejected.
3. Offers will be evaluated as per Bid Evaluation Criteria given in Annexure-III. Total Amount (inclusive of GST) will be considered in evaluation process.
4. GST rate applicable on the services must be quoted by the bidder.
5. The quoted prices for AMC for three years shall not be less than 20% of IT equipment cost including license, if any. Non- compliance of this clause will result in rejection of the bid. Bidder shall submit an undertaking in this regard in his technical offer.

Tentative Interior Layout/ Elevation/ Drawings:

1. For Tentative interior layout, please refer 06 Drawings enclosed as Additional Attachments.

E-tendering Instructions to Bidders**General:**

These are the special Instructions (for e-Tendering) as supplement to „Instruction to Bidders“ as available in Annexure-I of the tender document. Submission of Bids only through online process is mandatory for this Tender.

For conducting electronic tendering, Directorate General of Hydrocarbons, Noida is using the **Central Public Procurement Portal (CPPP)**

(<http://www.eprocure.gov.in>) of NIC, a Government of India Undertaking.

1. Tender Bidding Methodology:

Sealed Bid System –Two Envelopes.

Financial & Techno-commercial bids shall be submitted by the bidder at the same time.

2. Broad outline of activities from Bidders prospective:

- i) Procure a Digital Signing Certificate (DSC).
- ii) Register on Central Public Procurement Portal (CPPP).
- iii) Create Users and assign roles on CPPP.
- iv) View Notice Inviting Tender (NIT) on CPPP.
- v) Download Official Copy of Tender Documents from CPPP.
- vi) Prepare & arrange all document/paper for submission of bid online/offline.
- vii) Bid-Submission on CPPP.
- viii) Attend Public Online Tender Opening Event (TOE) on CPPP (Opening of Techno-Commercial Part).
- ix) Attend Public Online Tender Opening Event (TOE) on CPPP (Opening of Financial-Part) {only for Technically Responsive Bidders}

3. Digital Certificates:

For participation in e-tendering, it is mandatory for all bidders to have a Digital Certificate (DC) also referred to as Digital Signature Certificate (DSC), of Class 2 or above (in the name of person who will sign the Bid), issued by a Certifying Authority (CA) licensed by Controller of Certifying Authorities (CCA) [refer <http://www.cca.gov.in>].

4. Registration:

To use the Central Public Procurement Portal (<http://www.eprocure.gov.in>), bidder needs to register on the portal. The bidder should visit the home-page of the portal (www.eprocure.gov.in) and go to the e-procure link then go to “Online Bidder Enrollment”.

5. Bid related information for this Tender (Sealed Bid):

The entire bid-submission would be online on CPPP (<http://www.eprocure.gov.in>) Broad outline of submission are as follows:

- (I) Submission of Bid Security declaration (EMD).
- (II) Submission of digitally signed copy of Tender Documents/ Addendum/ Corrigendum.
- (III) Two Envelopes.
 - Techno- Commercial Bid
 - Financial Bid

6. Offline submissions of some documents:

It is mandatory for all bidders to submit following documents offline (physically) to HOD (MM), Grd Floor, DGH office, OI DB Bhawan, Sector-73, Noida-201301 on or before the date & time of bids closing as specified in NIT of this tender document, in a properly sealed envelope:

- (I) Power of Attorney (in Original) for authorized signatory of bid.

(II) Any other document, if specified, in the tender.

The envelope shall bear the name of the firm, tender number, name of work and the phrase – Do Not Open Before (Due date & time of opening of tender) –

Note:

- A. The responsibility for ensuring that envelope is delivered in time would be vested with the bidder. The DGH shall not be responsible if the envelope is delivered elsewhere or late.
- B. Document submitted physically to DGH and the scanned copies furnished at the time of online bid submission should be the same otherwise the bid will be summarily rejected.

7. Other Instructions:

For participating in this tender online, the following instructions are to be read carefully. These instructions are supplemented with more detailed guidelines on the relevant screens of the CPPP.

The bidder should visit the home-page of the CPP portal (www.eprocure.gov.in), and go to the link “eprocure”, then “Bidders Manual Kit” and “Help for Contractors” link.

- (I) Please take care to scan documents that total size of documents to be uploaded remains minimum. If required, documents may be scanned at lower resolutions say at 150 dpi. However, it shall be sole responsibility of bidder that the uploaded documents remain legible.
- (II) Utmost care may be taken to name the files/documents to be uploaded on CPPP. These should be no special character or space in the name of file.
- (III) It is advised that all the documents to be submitted (See Appendix-8 at Annexure-I of tender document) are kept scanned or converted to PDF format in a separate folder on your computer before starting online submission.
- (IV) Utmost care may kindly be taken to upload **Price schedule/ Price Format / BOQ/ BOM**. Any change in the format of price schedule / BOQ file shall render it unfit for bidding. Following steps may be followed:
 - a. Download Price schedule /Price format/ BOM/ BOQ in XLS format.
 - b. Fill rates in downloaded price schedule / BOQ as specified in XLS format only in sky blue background cells. Don't fill in white background cells.
 - c. BOQ/BOM file is password protected XLS file. Don't unprotect the file. Price has to be filled in the same file and the same has to be uploaded.
 - d. Save filled copy of downloaded BOM/BOQ file in your computer and remember its name & location for uploading correct file (duly filled in) when required.
- (V) The compatible support software (PDF Converter, Java, etc.) for online bid submission may be downloaded from CPP Portal.
- (VI) If some document is not applicable for the bidder then he has to upload scanned copy of paper mentioning, The document <name> called vide clause _____ is not applicable on us.
- (VII) If document asked for contains more than one page then all those pages may be uploaded in one PDF file.
