



BHARATMALA
ROAD TO PROSPERITY



BUILDING INFRASTRUCTURE - BUILDING THE NATION

CIN: U45400DL2014GOI269062

NHIDCL/Silkyara Tunnel/AE/2018

Dated: 08.03.2019

Subject: Consultancy Services for Authority's Engineer for supervision of Construction, Operation and Maintenance of 2-lane Bi-Directional Silkyara Bend -Barkot Tunnel with escape passage including approaches on Dharasu-Yamunotri section between Ch. 25.4 km and Ch. 51.0 km falling along NH-134 (old NH-94) in the State of Uttarakhand" on Engineering, Procurement and Construction (EPC) Mode. - **Technical Results -Reg.-**

Sir,

Please refer to your bid dated 30.01.2019 submitted towards subject cited project. The following is the list of technically responsive Bidders.

Sr. No.	Name of Bidder	Technical Score	Status
1	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd.	93.43	Responsive as per Minutes of Meeting enclosed.
2	M/s Energy Infratech Pvt. Ltd. In association with M/s Meinhardt Singapore Pte. Ltd.	77.88	Responsive as per Minutes of Meeting enclosed.
3	M/s Systra S.A. in association with M/s Pems Engineering Consultants Pvt Ltd	70.49	Non-Responsive as per Minutes of Meeting enclosed.
4	M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.	---	Non-Responsive as per Minutes of Meeting enclosed.
5	M/s Beaver Infra Consultants Pvt. Ltd.	----	Non-Responsive as per Minutes of Meeting enclosed.

- The copy of Minutes of Meeting (MoM) of Empowered Technical Evaluation Committee (ETEC) dated 06.03.2019 referred above is also enclosed.
- In case of any representation, the bidders may represent by 15.03.2019(1530 hrs).

Yours Faithfully,

Y.C. Srivastava
General Manager (T)

National Highways & Infrastructure Development Corporation Ltd

Minutes of Meeting of Empowered Technical Evaluation Committee (ETEC) for evaluating Technical Bids for “Consultancy Services for Authority’s Engineer for supervision of Construction, Operation and Maintenance of 2-lane Bi-Directional Silkyara Bend -Barkot Tunnel with escape passage including approaches on Dharasu-Yamunotri section between Ch. 25.400 and Ch. 51.000 falling along NH-134 (old NH-94) in the State of Uttarakhand” on Engineering, Procurement and Construction (EPC) Mode held at NHIDCL on 06.03.2019, New Delhi.

The bids for subject work were invited having Bid Due Date 30.01.2019. In all, five bids were received from the following bidders.

S. No.	Name of the Firm
1	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd.
2	M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.
3	M/s Energy Infratech Pvt. Ltd. In association with M/s Meinhardt Singapore Pte. Ltd.
4	M/s Systra S.A. in association with M/s Pems Engineering Consultants Pvt Ltd
5	M/s Beaver Infra Consultants Pvt. Ltd.

2. In this meeting, ETEC was apprised that the approved RFP is customized document to include bridge criteria for 1st Stage & 2nd Stage Evaluation as the assignment is a standalone Tunnel work of length 4.859 km. As such, the INFRACON evaluation module is not capable of carrying out the evaluation for the criteria of Tunnel works. Hence, the evaluation is required to be carried out manually. Accordingly Empowered Technical Bid Opening Committee handed over the hard/soft copies of the technical bids to the Financial Consultant M/s Rajhar Gopal Company engaged for carrying out the evaluation.

3. The financial consultant submitted the technical evaluation report vide letter dated 26.02.2019 (enclosed at **Annexure- I**). Financial Consultant also examined the certificates of all the firms uploaded on INFRACON to assert its appropriateness vis-à-vis RFP Criteria. Those projects with incorrect/incomplete experience certificate have been rejected and accordingly the first stage evaluation of the firms carried out.



4. The financial consultant observed that one of the bidders viz. M/s Beaver Infra Consultants Pvt. Ltd. has not created the INFRACON TEAM ID on INFRACON PORTAL. As per Clause No. 7.1 of LOI of RFP document the firm has to create team ID on INFRACON PORTAL for submitting their technical proposal (Experience of firm & Key Personnel). Since the M/s Beaver Infra Consultants Pvt. Ltd. has not created Team ID on INFRACON PORTAL. Therefore, the financial consultant has considered the bid as Non-Responsive. Accordingly, the first stage evaluation results are as under:

Sr.No.	Name of Bidder	Obtained marks through Manually by Financial Consultant (Max. points 25)	First Stage of Eligibility Status through Financial Consultant/Remarks
1	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd.	24.50	Responsive
2	M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.	-	(i) The bidder has not qualified the minimum experience in Project supervision/independent Engineer/Authority's Engineer of Tunnel Project of aggregate length equal to 3 times of length (i.e. 14.577 km) as per Clause 11 (A), Sr.No. 1(a) of Section 1 of RFP. (ii) The bidder has not qualified the prepared DPR/ Feasibility Study cum Preliminary Design Report for at least one project of similar category of Tunnel** work of 40% (i.e. 1.94 Km) of project length as per Clause 11 (A), Sr.No. 1(b) of Section 1 of RFP. (ii) Therefore, Non-responsive.
3	M/s Energy Infratech Pvt. Ltd. In association with M/s Meinhardt Singapore Pte. Ltd.	24.00	Responsive
4	M/s Systra S.A. in association with M/s Pems Engineering Consultants Pvt Ltd	24.50	Responsive

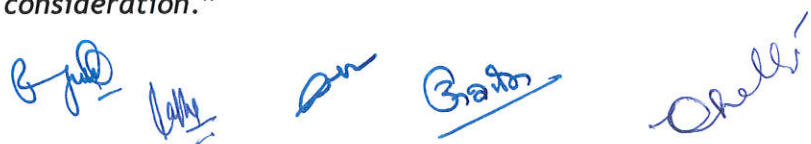
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5. As per evaluation by Financial Consultant, bidder at Sr. 2 above is not eligible in the first stage of evaluation as the firms do not meet the minimum eligibility requirement as per Clause No. 11 of section 1 for further evaluation.

6. Further, Financial Consultant carried out manual evaluation for second stages of three firm, which is based on the detailed submitted on INFRACON Data Sheet, result of which is tabulated below:

Sr. No.	Name of Bidder	Evaluation by Financial Consultant (Technical Score)			Reasons/Remarks
		Firm's marks	Key personnel	Total marks	
1	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd.	24.50	68.93	93.43	Responsive
2	M/s Energy Infratech Pvt. Ltd. In association with M/s Meinhardt Singapore Pte. Ltd.	24.00	53.88	77.88	Responsive
3	M/s Systra S.A. in association with M/s Pems Engineering Consultants Pvt Ltd	24.50	45.99	70.49	Non-Responsive

7. Six Key personnel of M/s Systra S.A. in association with M/s Pems Engineering Consultants Pvt Ltd i.e. Mr. Sindhu Mishra - (Resident Cum Tunnel Excavation expert), Mr. Turki Mohammad Said - (Tunnel Safety Expert), Mr. Christos Gioldasis (Sr. Geotechnical expert), Mr. Jang Bahadur Choudhary (Senior Geologist), Mr. Nishith Gupta (Tunnel Design Engineer) and Mr. Sumanto Dutta -(Instrumentation and Control SCADA Expert) could not score the minimum Qualifying marks of 75%. Hence, Consultant has been considered as Non Responsive as per Clause 3.4 (iv) (f) and Clause 5.3 of section 2 of RFP i.e. ***"In case more than 3 CV scores less than 75% marks or Team Leader cum Senior Tunnel Expert scores less than 75% marks, the proposal shall be considered non-responsive." And "Each responsive proposal shall be attributed a technical score (ST.) Only those Applicants whose Technical proposal score 75 marks or more out of 100 shall qualify for further consideration."***



8. However, it is observed that the name of key personnel's in Infracon ID and certificate are different. The details of key Personnel are as under:

Sr. No.	Name of Bidder	Designation	Name of key personnel in Infracon ID	Name of key personnel in all relevant document viz. Pan Card, B.Tech certificate etc.
i.	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd.	Tunnel Safety Expert	Mr. Shamsha Ali	Mr. Shamshe Ali
		Tunnel Design Engineer	Mr. Jaime Otazua	Mr. Don Jaime Otazua Font
		Sr. Geotechnical Engineer	Mr. Konstantinos Slergiopoulos	Mr. Constantinos B. Slergiopoulos
ii.	M/s Energy Infratech Pvt. Ltd. In association with M/s Meinhardt Singapore Pte. Ltd.	Tunnel Safety Expert	Mr. JANARDHANAMVARATHARAJAN	Mr. V. Janardhanam
iii.	M/s Systra S.A. in association with M/s Pems Engineering Consultants Pvt. Ltd.	Contract Specialist	Mr. Sanjeev kumar Bhatnagar	Mr. Sanjeev kumar
iv.	M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.	Tunnel Safety Expert-	Mr. M G Mohan	Mr. Mohan M G

9. It is observed that the key personnel Mr. Shamsha Ali was also in the team during earlier rebidding for this project during which the firm M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. had submitted vide letter no. TPF/RODIC/HO/BD/TP/NHIDCL/AE/Silkyara Tunnel/11-18/2202 dated 20.11.2018 an undertaking from Mr. Shamshe Ali that ***"I Shamshe Ali undertake that my all the educational documents and date of birth proof are in the name of Shamshe Ali which are correct. I further undertake take that my Infracon i.d is in the name of Shamsha Ali which is due to a typographic error. I have not created any i.d in the name of Shamshe Ali and I will request Infracon to change my name on Infracon to Shamshe Ali"***. However, it is observed that the name of the Key

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personnel is still not rectified on Infracon Division. The firm or the Key personnel has not submitted any copy of the request for such rectification submitted to Infracon Division. A copy of same may be asked from the applicant and if the same is not submitted then CV will not be considered for evaluation and this division will request Infracon division to block his Infracon ID.

10. The other Key Personnel mentioned at Para-8 may also be requested to submit the supporting document regarding change of name or for necessary rectification to Infracon division under Intimation to this division within 7 days, otherwise their CVs will not be considered and this division will request Infracon division to block their Infracon ID.

11. The details of technical marks of the key personnel's as per evaluation of Financial Consultant are given at Page no. 21 to 62 of report of Financial Consultant considering that supporting documents or necessary rectification regarding change of name for key personnel mentioned at para-8 will be taken up by the respective key personnel & Firms. The Committee also noted that the submitted CVs does not contain complete details of designation and duties performed by the persons and therefore evaluation is purely based on the description uploaded on INFRACON data sheet. Most of the key personnel's are foreign nationals and their verification may take considerable time therefore, Committee recommended that verification of credential of Key Personnel of the above two responsive firm's may also be carried out parallely to save the time.

12. In view of above, the Committee deliberated on the report submitted by the Financial Consultant and found the same in order, Accordingly Committee recommends for uploading the Minutes of Meeting of ETEC on website and giving 7 days time to all the bidders for Clarification/Representation if any by uploading on website.

The Meeting ended with Vote of Thanks to and by the chair.


V.K.Singh
ED-IV
Convener


Y.C.Srivastava
GM-Tech
Member
Secretary


A.K.Gupta
GM-Tech
Member


Uttam Chatterjee
DGM-Fin.
Member


Kavita Vivek
Manager (Tech)
Member

**National Highway & Infrastructure
Development Corporation Ltd.
(MINISTRY OF ROAD TRANSPORT & HIGHWAYS)
GOVERNMENT OF INDIA
PTI Building, 3rd Floor, 4,
Parliament Street, New Delhi-110001**

2/26/2019

Evaluation Report
On

“Construction, Operation and Maintenance of 2-lane Bi-Directional Silkyara Bend –Barkot Tunnel with escape passage including approaches on Dharasu-Yamunotri section between Ch. 25.4 km and Ch. 51.0 km falling along NH-134 (old NH-94) in the State of Uttarakhand”

***Submitted By :-
Raj Har Gopal & Co.
Rajhargopal1@Hotmail.com***

Date: - 26.02.2019

To,
Mr. Y.C. Srivastava
General Manager (Tech)
National Highway & Infrastructure
Development Corporation Ltd.
PTI Building, 3rd Floor, 4,
Parliament Street, New Delhi-110001

Sub: "Construction, Operation and Maintenance of 2-lane Bi-Directional Silkyara Bend –Barkot Tunnel with escape passage including approaches on Dharasu-Yamunotri section between Ch. 25.4 km and Ch. 51.0 km falling along NH-134 (old NH-94) in the State of Uttarakhand"

Dear Sir,

With reference to your request through letter awarding us the consultancy work for evaluation of Technical bids received from 4 Applicants for "Construction, Operation and Maintenance of 2-lane Bi-Directional Silkyara Bend –Barkot Tunnel with escape passage including approaches on Dharasu-Yamunotri section between Ch. 25.4 km and Ch. 51.0 km falling along NH-134 (old NH-94) in the State of Uttarakhand", the following Technical Evaluation Report is hereunder.

Project Detail:

S. No.	Consultancy Package	NH No.	State	Project Stretch	Project Length (Km)/Bid Project Cost (Cr.)	Assignment period (months)
1	NHIDCL/AE/ Silkyara Tunnel/Uttarakhand/2018	134	Uttarakhand	Construction, Operation and Maintenance of 2-lane BiDirectional Silkyara Bend –Barkot Tunnel with escape passage including approaches on Dharasu Yamunotri section between Ch. 25.4 km and Ch. 51.0 km falling along NH-134 (old NH-94) in the State of Uttarakhand" on Engineering, Procurement and Construction (EPC) Mode.	4.859 Km (including approach road)/ Rs 853.79 Crore.	41

1. Preamble

The RFP shall be received through "INFRACON" (www.infracon.nic.in) and will be evaluated based on details furnished on "INFRACON". As such before submitting the proposal, the Consultant (the firm and all key personnel) shall mandatorily register and enlist them, on the MoRTH portal "INFRACON" and upload all relevant information to enable correct evaluation of RFP.

All the bidders registered on "INFRACON" shall form a Team on "INFRACON" which would be assigned unique INFRACON Team ID. Bidders while submitting the RFP proposal shall furnish registration details including INFRACON Team ID. A copy of INFRACON Operation Procedure is enclosed for bidder's reference.



Raj Har Gopal & Co., has been appointed as the financial consultant by the NHAI has carried out its evaluation from the CV's Uploaded on INFRACON Portal and proposal submitted by the Applicants, The Evaluation Committee appointed by the Employer shall carry out its evaluation applying the evaluation criteria and point system specified in the data sheet. Each responsive proposal shall be attributed a technical score (ST.) Only those Applicants whose Technical proposal score 75 marks or more out of 100 shall qualify for further consideration. However, if the number of such pre-qualified applications is less than two, the Employer may, in its sole discretion, pre-qualify the applicant(s) whose technical score is less than 75 marks.



1.2 Assumptions (as discussed with Authority):

We have made the following assumptions after discussing the same with the authority;

A. Relating to Firm's Relevant Experience

Preparation of DPR (NH/SH/Equivalent)

The firm should have minimum experience of preparation of Detailed Project Report/ Feasibility Study cum Preliminary Design Report of Tunnel** project of aggregate length equal to 2 times (i.e. 9.718 Km) or more of similar category for which RFP is invited.

Firm should also have prepared DPR/ Feasibility Study cum Preliminary Design Report for at least one project of similar category of Tunnel** work of 40% (i.e. 1.94 Km) of project length.

Project Supervision/IC (NH/SH/Equivalent)

The firm should have minimum experience of Project Supervision/Independent Engineer/Authority's Engineer of Tunnel** project of aggregate length equal to 3 times (i.e. 14.577 Km) or more of similar category for which RFP is invited.

Firm should also have experience of Project Supervision/Independent Engineer/Authority' Engineer of at least one project of similar category of Tunnel** work of 40% (i.e. 1.94 Km) of project length.

(i) Cut-off Date for Eligible Projects completed during last 7 years

For the purpose of determining the Firm's relevant experience in last 7 years only those Projects have been considered which have been completed between the date 30.01.2012 to 30.01.2019 and, Hence, if a Project's completion date falls before 30.01.2012, then such project has not been considered as eligible experience towards DPR/ Feasibility Study/ Project Supervision/Independent Engineer.

(ii) Experience of Detailed Engineering Design/Detailed Design

Where the Detailed Engineering Design/ Detailed Design have been carried out as a part of Consultancy Services the same has been considered as part of Experience in DPR Projects. And in case of Feasibility Study cum Preliminary Design Report, it has been considered as Feasibility Study.

B. Relating to Qualification and Competence of the Key Staff for adequacy of the Assignment

(i) Qualification of the Key Personnel

No Marks have been awarded where the specialization/Stream of the Desirable Educational Qualification is claimed by the Key Personnel in the CV but the same has not been reflected in the Degree/Qualification Certificate.

(ii) Marks towards Employment with the Applicant Firm

While ascertaining the Employment with the firm:

- (a) Only the current employment till date of invitation of the proposal/NIT has been considered. Any past employment with the Firm has not been considered in period of Employment with the Firm.

Length of Professional Experience

For the purpose of computing Length of total Professional Experience of the Key Personnel (KP), we have considered the same from the Date of commencement of his First Job till date of invitation of the proposal/NIT.

- (iii) Only those CV's of the Key personnel evaluated and marks were allotted those registered on the Infracon Portal. Otherwise zero Marks were awarded whose CV's of the Key personnel not Registered.
- (iv) In case of similar capacity for Team Leader Cum Senior Tunnel Expert includes Team leader, Project manager, Resident Engineer, Sr. Tunnel Expert, Project Head, Project Director.
- (v) In case of similar capacity for Resident cum Tunnel Excavation Specialist includes Resident Engineer, Sr. Tunnel Expert, Project Manager, and Sr. Tunnel Engineer.



- (vi) In case of similar capacity for Tunnel Design Engineer includes Tunnel Design Engineer, Team leader, Project manager, Sr. Tunnel Expert, Project Head, Project Director, General Manager, and Chief Engineer.
- (vii) In case of similar capacity for Tunnel Safety Expert includes Safety Engineer.
- (viii) In case of similar capacity for Senior Geo- Technical Expert includes Geotechnical Expert, Geotechnical Engineer, and Project Manager.
- (ix) In case of similar capacity for Senior Geologist includes Geologist, Sr. Geologist, Assistant G.M, Deputy Manager.
- (x) In case of similar capacity for Tunnel Ventilation cum E&M Expert includes Senior E&M Expert, Tunnel Ventilation Expert, PROJECT MANAGER (E&M), Superintending Engineer, Chief Engineer, Executive Engineer.
- (xi) In case of similar capacity for Contract Specialist includes Contract Specialist, Contract Expert, and Contract Engineer.



1. (I) Hard copy in Original (identical to proposals to be submitted in Sealed Envelop and also Electronic form to be uploaded on the E-tendering portal of Employer/NIC (I) Technical Proposal in Hard Bound Form including:-

- Power of Attorney for signing the Application
- If applicable, the Power of Attorney for Lead Member of JV;
- Copy of Memorandum of Understanding between JV partners, if applicable;
- Copy of Memorandum of Understanding with Associate, if applicable
- Firm credentials as per format prescribed in SECTION-3 OF RFP.
- Technical proposal as per format prescribed in SECTION-4 OF RFP.

(II) Cost of RFP of Rs. 10,000/- (Rupees Ten thousand only) in the form of demand draft in favour of "National Highways & Infrastructure Development Corporation Ltd." payable at New Delhi must be furnished in a separate envelope while submitting the proposal.

(III) Bid Security (for the amount given in section 1 of this document) in the form of a Bank Guarantee and the format specified in this document.

Note: - It has been found that all the bidders have been registered on Infracon and formed a Team on Infracon and they have been signed unique Infracon Team ID. Bidders have also quoted the Infracon Team ID. All the Key Personnel proposed the bidders have also been registered on Infracon.

Further, the responsiveness of the bids with regard to submission of documents like POA, MOUs (with JV & Associates), fee of bid documents etc. have been examined and found that all the bidders have submitted the requisite documents.

2. List of Applicants: -

Applicant No.	Name of the Applicant	Status of the Applicant
'1/4	M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	Association
2/4	M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.	Association
'3/4	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	Association
4/4	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.	Association

3. Eligibility criteria (As Per Clause 11(A) of RFP)

A. Eligibility criteria for sole applicant firm

S. No.	Experience of the firm in last 7 years		Annual Turnover***
	Preparation of DPR (NH/SH/Equivalent)	Project Supervision/IC (NH/SH/Equivalent)	
1 (a).	The firm should have minimum experience of preparation of Detailed Project Report/ Feasibility Study cum Preliminary Design Report of Tunnel** project of aggregate length equal to 2 times (i.e. 9.718 Km) or more of similar category for which RFP is invited.	The firm should have minimum experience of Project Supervision/Independent Engineer/Authority's Engineer of Tunnel** project of aggregate length equal to 3 times (i.e. 14.577 Km) or more of similar category for which RFP is invited.	Annual turnover (updated average of last 3 years) of the firm from consultancy business should be equal to or more than 2% of Estimated Project Cost.



MINIMUM ELIGIBILITY CRITERIA As per 11(A) of RFP

S.No.	Name of the Applicants	Project Supervision/IC (NH/SH/Equivalent)				Annual Turnover	whether the Applicant is Technical "Responsive" or "Non-Responsive".
		Preparation of DPR (NH/SH/Equivalent)	The firm should have minimum experience of Project Supervision/Independent Engineer/ Authority's Engineer of Tunnel project of aggregate length equal to 3 times (14.577 Km) or more of similar category** for which RFP is invited.	Firm should also have prepared DPR/Design/Feasibility Study/ for at least one project of similar category of Tunnel work of 40% (i.e. 1.94 km) of project length.	Firm should also have experience of Project Supervision/Independent Engineer/Authority Engineer of at least one project of similar category of Tunnel work of 40% (i.e. 1.94 km) of project length.	Annual turnover (updated average of last 3 years) of the firm from consultancy business should be equal to or more than 2% of Estimated Project Cost.	
1/4	M/s Sysra S.A. in association with PEMIS Engineering Consultants Pvt. Ltd.	YES	YES	YES	YES	YES	Responsive
2/4	M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.	YES	NO	NO	YES	YES	Non-Responsive
3/4	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	YES	YES	YES	YES	YES	Responsive
4/4	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.	YES	YES	YES	YES	YES	Responsive



1 (b)	Firm should also have prepared DPR/ Feasibility Study cum Preliminary Design Report for at least one project of similar category of Tunnel** work of 40% (i.e. 1.94 Km) of project length.	Firm should also have experience of Project Supervision/Independent Engineer/Authority' Engineer of at least one project of similar category of Tunnel** work of 40% (i.e. 1.94 Km) of project length.	
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**Tunnel Works for road/rail/metro/Hydro will be considered as applicable for the project for which the RFP is invited.

B) Eligibility Criteria for partners in case of JV (not more than 1 JV partners shall be allowed) shall be as under: The lead partner must fulfil atleast 50% of requirements at 1(a) of table in para (A) above and other JV partner should fulfil atleast 30% of eligibility criteria as indicated at 1(a) of table in para (A) above. Also the lead partner and JV partner jointly should meet the eligibility criteria as mentioned at 1(a) of table in para (A) above. Lead partner should meet the criteria 1 (b) of table in para (A) above.

Note: The weightage given for experience of a firm would depend on the role of the firm in the respective assignments. The firm's experience would get full credit if it was the sole firm in the respective assignment. If the applicant firm has completed projects as JV with some other firms, weightage shall be given as per the JV share***. However if the applicant firm has executed the project as associate with some other firms, 25% weightage shall be given to the applicant firm for the projects completed under such association

***For weightage of experience in any past Consultancy assignment, experience certificate from the client shall be submitted. In absence of clear demarcation of JV share in client certificate, the weightage will be treated as 60 % for lead partner and 40% for minor partner. Annual turnover duly certified by Chartered Accountant shall be accepted. In case of non-availability of such documents no weightage of turnover/experience will be considered.

Note:-Observation in support of Minimum Eligibility Criteria (As per Clause 11 (A) of RFP)- Refer Annexure- I

3.1. Annual turnover duly certified by Chartered Accountant shall be accepted. In case of non-availability of such documents no weightage of turnover/experience will be considered.

- Following enhancement factor will be used for the cost of services provided and for the turnover from consultancy business to a common base value for works completed in India:

Year of completion of services / turnover	Enhancement factor
Financial year in which RFP invited	1.00
One year prior to RFP	1.10
Two year prior to RFP	1.21
Three year prior to RFP	1.33

Applicant should indicate actual figures of costs and amount for the works executed by them without accounting for the above-mentioned factors.

Note:- Observation in support of Average Annual Turnover (As per Clause 11 (A) of RFP)- Refer Annexure- I

4. (i) The points assigned to Technical Evaluation criteria are:

S. No.	Description	Marks
1	Relevant experience for the assignment	25
2	Qualifications and competence of the key staff for the	75
	Total	100



(ii) Sub criteria for Relevant Experience of the firm for the assignment:

Criteria	Marks
Year of Establishment of the Firm (In case of JV year of establishment of Lead Member shall be considered)	2
Average Annual Turnover (last 3years) from consultancy business	2
Experience in Construction Supervision/Independent Engineer/Authority Engineer in transportation Tunnel** Projects (Road/Rail/Metro/Hydro Tunnel) of 40% of project length or 1.94 Km in length, which ever in minimum for which the RFP is invited in last 7 years*	16
Experience in Detailed Project Report/ Feasibility Study cum Preliminary Design Report for transportation Tunnel** Projects of Road/rail/Metro/Hydro Tunnel of 40% of project length or 1.94 Km in length, which ever in minimum for which the RFP is invited in last 7 years*	5
Total	25

****Tunnel Works for road/rail/metro/Hydro Tunnel will be considered as applicable for the project for which the RFP is invited.**

Note:-Observation in support of Relevant Experience of the firm for the assignment. (As per Clause 10 (i) of Data Sheet of RFP)

5. The basis of minimum eligibility requirement and Relevant Experience of the firm for the assignment. (as per criteria provided in Clause 11 (A) of RFP), following responsive bidders are considered for Stage-II evaluation:

S. No.	Name of Bidder	Remarks
1/4	M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	Responsive
2/4	M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.	Non-Responsive
3/4	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	Responsive
4/4	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.	Responsive

Note:- Non-Responsive:-

1. In case of M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.:-

Explanation :- M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) in association with SA Infrastructure Consultants Pvt. Ltd. doesn't possess the minimum eligibility requirement for **"Experience in DPR/ Feasibility Study cum Preliminary Design Report of Tunnel and accordingly no one project of DPR/ Feasibility Study cum Preliminary Design Report of similar category of Tunnel work of 40% (i.e. 1.94 Km) of project length"**.

Further, also bidder doesn't possess the minimum eligibility requirement for **"Supervision/Independent Engineer/Authority's Engineer of Tunnel and accordingly aggregate length works out to be less than equal to 3 times (i.e. 14.577 Km) of project length"**

Therefore, bidder is not qualifying the eligibility criteria as per clause 11 (B) of Section-1 of RFP i.e. **"Firm should also have prepared DPR/ Feasibility Study cum Preliminary Design Report for at least one project of similar category of Tunnel** work of 40% (i.e. 1.94 Km) of project length" and "The firm should have minimum experience of Project Supervision/Independent Engineer/Authority's Engineer of Tunnel** project of aggregate length equal to 3 times (i.e. 14.577 Km) or more of similar category for which RFP is invited"**. Hence, on the basis of above mentioned facts bidder is considered as Non-Responsive.

6. Stage-II Technical Proposal. (As per Clause 3.4(iv)(f) of RFP)

If a CV score less than 75% marks, whatever marks it score will be carried forward for maximum 3 nos. key personnel for determining the total score of the firm. However, if the Key Personnel does not fulfill the minimum academic qualification (as mentioned at Enclosure-B of TOR of RFP), the overall score of his CV will be evaluated as zero. If the



Name of the Project

"Construction, Operation and Maintenance of 2-lane Bi-Directional Silkyara Bend –Barkot Tunnel with escape passage including approaches on Dharasu-Yamunotri section between Ch. 25.4 km and Ch. 51.0 km falling along NH-134 (old NH-94) in the State of Uttarakhand"

Average annual turnover from consultancy services after following enhancement factor

Year of Completion of Services/turnover										marks obtained out of maximum marks 2	
Financial Year in which RFP invited (2017-18)		1									
One Year Prior to RFP (2016-17)		1.1									
Two Year Prior to RFP (2015-16)		1.21									
Three Year Prior to RFP (2014-15)		1.33									
S.No.	Name of Consultancy Firm/Entity (Sole Bidder/Bidder in JV)	Average annual turnover from consultancy services after following enhancement factor						Annual Average Turnover in Last 3 years 2015-16 to 2017-18	Eligibility (Crore)	Assessed	
		2017-18	2016-17	2015-16							
		1.1	1.21	1.33							
1/4	M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	3091.55	3400.71	3247.25	3929.17	3160.78	4203.83	3844.57	Yes	2	
2/4	M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.	617.01	678.72	590.74	714.79	457.81	608.89	667.47	Yes	2	
3/4	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	0.00	0.00	270.29	327.05	298.26	396.69	241.24	Yes	2	
4/4	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.	31.43	34.57	45.57	55.14	33.81	44.97	44.89	Yes	2	



"Construction, Operation and Maintenance of 2-lane Bi-Directional Silkyara Bend –Barkot Tunnel with escape passage including approaches on Dharasu-Yamunotri section between Ch. 25.4 km and Ch. 51.0 km falling along NH-134 (old NH-94) in the State of Uttarakhand"

FIRMS RELEVANT EXPERIENCE FOR THE ASSIGNMENT

ANNEXURE-III

S.N. o.	Applicant No. Description	Max Marks	3/4		2/4		3/4		4/4	
			Assesed	Remarks	Assesed	Remarks	Assesed	Remarks	Assesed	Project considered
1	Year of establishment of the firm (in case of JV, year of establishment of lead member shall be considered).	2	2							M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.
	Up to 5 years: 1.5 marks	1.5	1.5						2	
	More than 5 years: 2 marks	0.5	0.5						1.5	
	Average Annual Turnover (last 5 years or in each of the preceding two years) from consultancy business	2	2						0.5	
	< Rs 22.39 crore: 0 marks Rs 22.39 crore: 1.5	0	1.5						2	
2	Add for additional turnover 0.25 (zero point two five) mark for every Rs 11.19 crore above Rs 22.39 crore subject to maximum 0.5 marks.	0.5	0.5						1.5	M/s TPF Getitina Eurostudios S.L. in association with M/s Rodic Consultants Pvt. Ltd. (RODIC)
	Experience in construction supervision/independent Engineer/Authority's Engineer of a tunnel** project during the last 7 years of minimum length equal to or more than 1.94 km in a single stretch	16	16						0.5	
	(i) 1.94 km = 0	0							2	
	(ii) 21.94 km to 4.00 km = 12	12							1.5	
	(iii) 24.00 to 6.00 km = 13	13							0.5	
3	(iv) >6.00 to 8.00 km = 14	14							16	Pr. No. 1 (28300 m)
	(v) > 8.00 and equal to 10.00 km = 15	15							15	
	(vi) >10 and above = 16	16							15	
	Experience in DPR preparation/Design/Feasibility Study of tunnel projects** of length equal to or more than 1.94 km in a single stretch in last 7 years.	5	4.5						5	
	1 project: 4 marks	4	4						4	
4	Add 0.5 (zero point two five) marks extra for each additional project subject to maximum 1 mark.	5	0.5						1	Pr. No. 38 (4164.55 m and 3893.5 m)
	Total	25.00	24.50						24.50	
									24.00	
									4	
									1	
			1		2		3		4	

Note:- In case of JV the turnover and experience details of Lead and JV partners will be added for evaluation. Credentials of associate firm, except key personnel.

Note 2: Employer's certificate should be submitted substantiating the experience claimed by the firm.

**Tunnel Works for road/rail/metro/Hydro Tunnel will be considered as applicable for the project for which the RFP is invited.



Name of the Project

"Construction, Operation and Maintenance of 2-lane Bi-Directional Silkyara Bend –Barkot Tunnel with escape passage including approaches on Dharasu-Yamunotri section between Ch. 25.4 km and Ch. 51.0 km falling along NH-134 (old NH-94) in the State of Uttarakhand"

List of the Applicants:-

Applicant No:-	Name of the Applicant	Status of the Applicant Sole/JV/ Association
1/4	M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	Association
2/4	M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.	Association
3/4	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	Association
4/4	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.	Association



M/s TPF Getinsa Eurostudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)

DPR

Total DPR projects uploaded on Infracon (project no.) - 4,5,6,9,10,16,19,21,23,25,27,28,29,31,32,33,38,43,46,47,48,49,50,51,52,56,57,59,60,62,63,64,65,66,67,68,69,71,72,73,80,84,85,87,92,94,96,98,100,102,108,110,111,112,117,121,124

Total DPR projects last 7 years (project no.) - 5,6,29,34,38,47,71,87,95,102,121,124,59,63,64,68,69,72,75,77,84,86,91,92,94,96,98,100,108,110,111,112,117

Only last 7 year projects i.e. 30.01.2012 to 30.01.2019 has been considered for Evaluation by Manually

Project Sr. No As per Moved Data	Assignment Type	Lane	Weightage	Association	Date of start	Date of Completion	Weightage sole/JV/ Associate	Total length of the project (km)	Tunnel length (km)	0 m to 499 m	500 m to 999 m	1000m to 1499 m	1500 m & above	No. of Tunnel Tunnel details & Length as per Certificate	Remarks	
5	DPR	4	1	Sole	2.2.2004	3.3.2012	100%	112.62						NO TUNNEL WORK	Rejected as the project length or tunnel work not mentioned in the certificate.	
6	DPR	4	1	Sole	23.05.2003	03.03.2012	100%	112.62						NO TUNNEL WORK	Rejected as the project length or tunnel work not mentioned in the certificate.	
29	DPR	4	1	SOLE	01.03.2007	01.12.2012	100%	44.4						NO TUNNEL WORK	Rejected as the project length or tunnel work not mentioned in the certificate.	
34	DPR	4 lane road	1	Consortium	06.06.2007	31.12.2014	50%	8.8	3.897	4	1	0	1	Tunnel lengths = 120 m, 475 m, 466 m, 470 m, 735 m, 1630 m Out of which tunnel of greatest length i.e. 1630 m, 1630 m, 1630 m Total considered length=3696 m, 351945 m	May be accepted for aggregate length of tunnels for minimum eligibility criterion. This project is not considered for marking criterion as length of single stretch is less than 1.94 Km. This project not apostille by the respective agency. However, this project's being considered on the responsibility of the bidder.	
38	DPR	Railway Tunnel	1	Association (Lead)	22.11.2007	22.05.2015	65%	18.9	18.9	1	0	0	3	Tunnel lengths = 445 m, 590 m, 6407 m and 2404.5 m length after applying share- 6407*0.65=4164.55 m 445*0.65=289.25 m 590*0.65=3893.5 m	May be accepted. This project not apostille by the respective agency. However, this project is being considered on the responsibility of the bidder.	
47	DPR	Railway Tunnel	1	Association	11.01.2008	30.11.2012	25%	17.2						NO TUNNEL WORK	Rejected as the project length or tunnel work not mentioned in the certificate.	
71	DPR	4	1	Association (Lead)	01.05.2009	01.07.2013	50%	134.76	3550	9	4	7	22	Tunnel length = 3180m, 1910m, 540m, 440m, 740m, 180m, 200m, 3510m, 3550m, 2431m, 2301m, 190m, 200m, 360 m, 200m, 2580m, 2380m, 190m, 100m, 2043m, 20 83m, 1730m, 1520m, 570m, 570m, 2210m, 2210 m, 1070m, 1220m, 1540m, 1540m, 2890m, 2850 m, 1120m, 1150m, 2860m, 2900m, 2010m, 1540 m, 290m, 1270m, 1110m. One tunnel of highest	May be accepted for aggregate length of tunnels for minimum eligibility criterion. This project is not considered for marking criterion as length of single stretch is less than 1.94 Km. This project not apostille by the respective agency. However, this project is being considered on the responsibility of the bidder.	
87	DPR	Railway Tunnel	1	Sole	14.03.2011	ongoing	100%	24.19	24.19	12 tunnels				Tunnel length = 135 m to 5465 m	Rejected as 1. Percentage completion not mentioned. 2. Completion date not mentioned. 14 tunnels involved in the project ranging from 135 m to 5465 m. Individual length of the tunnels not mentioned.	
95	DPR	4	1	Sole	18.04.2012	31.01.2016	100%	4	0.186	3	0	0	0	Three tunnels of length 126m, 40m, 20 m	Rejected as the work has been carried out for a private client.	
102	DPR	Railway Tunnel	1	JV	25.06.2013	In progress	40%	12.6	12.6	0	0	0	1	Tunnel lengths- 12600 m	Rejected as percentage completion not mentioned.	
121	DPR	4	1	Sole	16.05.2017	ongoing	100%	377	0	0	0	0	0	0	0	Rejected as only contract agreement has been attached.
124	DPR	4	1	Sole	22.02.2018	ongoing	100%	467	0	0	0	0	0	0	0	Rejected as only contract agreement has been attached.
59,63,64,68,69,72,75,77,84,86,91,92,94,96,98,100,108,110,111,112,117	DPR									NO TUNNEL WORK INVOLVED					Rejected as no tunnel work mentioned in the certificate.	
Total length considered for minimum eligibility criterion															39637.225 m	



Construction Supervision

Total Construction supervision projects uploaded on infracon (project no.) - 1,2,3,5,8,11,12,13,14,15,17,18,20,22,24,26,30,34,35,36,39,41,44,45,55,58,60,62,70,74,75,,76,77,79,81,82,83,86,88,89,90,91,95,97,99,101,107,118

Total Construction supervision projects last 7 years (project no.) - 15,730,53,54,78 93,114, 115,118

Only last 7 year projects i.e. 30.01.2012 to 30.01.2019 has been considered for Evaluation by Manually															
Project Sr. No As per Moved Data	Assignment Type	lane	Weightage	Association	Date of Start	Date of Completion	Weightage sole/JV/ Associate	Total length of the project (Km)	Tunnel length (km)	0 m to 499 m	500 m to 999 m	1000m to 1499 m	1500 m & above	No. of Tunnel Tunnel details & Length as per Certificate	Remarks
1	CONSTRUCTION SUPERVISION	RAILWAY WORK	1	Sole	02.11.2001	26.06.2017 (99.89%)	100%	28.3	28.3	0	0	0	1	Tunnel length- 28300 m	May be accepted. This project not apostille by the respective agency. However, this project is being considered on the responsibility of the bidder.
5	CONSTRUCTION SUPERVISION	4	1	Sole	2.2.2004	3.3.2012	100%	112.62						NO TUNNEL WORK	Rejected as the project length or tunnel work not mentioned in the certificate.
6	CONSTRUCTION SUPERVISION	4	1	Sole	23.05.2003	03.03.2012	100%	112.62						NO TUNNEL WORK	Rejected as the project length or tunnel work not mentioned in the certificate.
7	CONSTRUCTION SUPERVISION	4	1	Sole	23.05.2003	03.03.2012	100%	112.62						NO TUNNEL WORK	Rejected as the project length or tunnel work not mentioned in the certificate.
30	CONSTRUCTION SUPERVISION	4	1	association(minor)	01.04.2017	31.01.2012	40%	3.9						NO TUNNEL WORK	Rejected as the project length or tunnel work not mentioned in the certificate.
53,54,78,93,114, 115,118	CONSTRUCTION SUPERVISION														Criterion already fulfilled.

Other Works

Only last 7 year projects i.e. 30.01.2012 to 30.01.2019 has been considered for Evaluation by Manually

Project Sr. No As per Moved Data	Assignment Type	lane	Weightage	Association	Date of Start	Date of Completion	Weightage sole/JV/ Associate	Total length of the project (Km)	Tunnel length (km)	No. of Tunnel				Remarks
										0 m to 499 m	500 m to 999 m	1000m to 1499 m	1500 m & above	
101	equipment inspection tasks for tunnel													Rejected
103,104,105,106, 109,113,112,123	Pavement condition surveys,other works except CS or DPR													Rejected
102,53,54,78,93,114, 115,116,119,120	O&M													Rejected as it is a O&M project



M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.														
DPR														
Total DPR projects uploaded on infracon (project no.) - 1,2,3,4,9,10														
Total DPR projects last 7 years (project no.) - 1,2,3,4,9,10														
Only last 7 year projects i.e. 30.01.2012 to 30.01.2019 has been considered for Evaluation by Manually														
Project Sr. No As per Moved Data	Assignment Type	lane	Weightage	Association	Date of Start	Date of Completion	Weightage sole/JV/ Associate	Total length of the project (km)	Tunnel length (km)	No. of Tunnel			Remarks	
										0 m to 499 m	500 m to 999 m	1000m to 1499 m		
1	DPR	2	1	Sole	1.05.2006	31.07.2013	100%	14	3.82	0	0	0	1	3820 m single tunnel Rejected as the consultant has only updated the already completed detailed design.
2	DPR	Railway Tunnel	1	Sole	2.05.2006	01.03.2013	100%	1.5	1.5	0	0	0	1	1500 m single tunnel May be accepted for aggregate length of tunnels for minimum eligibility criterion. This project is not considered for marking criterion as length of single stretch is less than 1.94 Km. This project not apostille by the respective agency. However, this project is being considered on the responsibility of the bidder.
3	DPR	Railway Tunnel	1	SOLE	21.03.2008	20.07.2018	100%	12.8	12.8	0	0	0	1	12800 m Rejected as the consultant has only updated the already completed detailed design.
4	DPR	NOT SPECIFIED	1	Consortium (Lead)	01.01.2010	01.01.2018	100%	1.5	1.5	0	0	0	1	1500 m single tunnel May be accepted for aggregate length of tunnels for minimum eligibility criterion. This project is not considered for marking criterion as length of single stretch is less than 1.94 Km.
9	DPR	Railway Tunnel	1	Consortium (Lead)	26.08.2013	31.01.2016	84%	21	21	0	0	0	1	One tunnel of 21000 m length with share 84.14% i.e. 21000*84.14=17669.4 m The firm is working as construction supervision and provided Preliminary and Detailed Design for tunnel.Hence, the project can be accepted. This project not apostille by the respective agency. However, this project is being considered on the responsibility of the bidder.
10	DPR	Metro Railway Tunnel	1	Sole	03.05.2016	3.08.2018	100%	28	15	0	0	0	1	15000 m single tunnel May be accepted. This project not apostille by the respective agency. However, this project is being considered on the responsibility of the bidder.
Total length considered for minimal eligibility criterion													22169.4 m	
M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.														



Construction Supervision															
Total Construction supervision projects uploaded on infracon (project no.) - 1,2,3,4,8															
Total Construction supervision projects last 7 years (project no.) - 1,2,3,4,8															
Only last 7 year projects I.e. 30.01.2012 to 30.01.2019 has been considered for Evaluation by Manually															
Project Sr. No As per Moved Data	Assignment Type	lane	Weightag e	Associatio n	Date of Start	Date of Completion	Weightag e sole/JV/ Associate	Total length of the project (km)	Tunnel length (km)	0 m to 499 m	500 m to 999 m	1000m to 1499 m	No. of Tunnel 1500 m & above Certificate	Tunnel details & Length as per Certificate	Remarks
1	Construction Supervision	2	1	Sole	1.05.2006	31.07.2013	100%	14	3.82	0	0	0	1	3820 m single tunnel	May be accepted. This project not apostille by the respective agency. However, this project is being considered on the responsibility of the bidder.
2	Construction Supervision	Railway Tunnel	1	Sole	2.05.2006	01.03.2013	100%	1.5	1.5	0	0	0	1	1500 m single tunnel	May be accepted for aggregate length of tunnels for minimum eligibility criterion. This project is not considered for marking criterion as length of single stretch is less than 1.94 Km.
3	Construction Supervision	Railway Tunnel	1	SOLE	21.03.2008	20.07.2018	91%	12.8	12.8	0	0	0	1	12800 m	This project not apostille by the respective agency. However, this project is being considered on the responsibility of the bidder.
4	Construction Supervision	NOT SPECIFIED	1	Consortiu m (Lead)	01.01.2010	01.01.2018	100%	1.5	1.5	0	0	0	1	1500 m single tunnel	May be accepted for aggregate length of tunnels for minimum eligibility criterion. This project is not considered for marking criterion as length of single stretch is less than 1.94 Km.
8	Construction Supervision	Railway Tunnel	1	Consortiu m (Lead)	01.11.2012	01.01.2016	100%	7.7	7.7	0	0	0	1	7700 m	May be accepted This project not apostille by the respective agency. However, this project is being considered on the responsibility of the bidder.
Total length considered for minimal eligibility criterion										27320					
Other Works															
Only last 7 year projects I.e. 30.01.2012 to 30.01.2019 has been considered for Evaluation by Manually															
Project Sr. No As per Moved Data	Assignment Type	lane	Weightag e	Associatio n	Date of Start	Date of Completion	Weightag e sole/JV/ Associate	Total length of the project (km)	Tunnel length (km)	0 m to 499 m	500 m to 999 m	1000m to 1499 m	No. of Tunnel 1500 m & above Certificate	Tunnel details & Length as per Certificate	Remarks
5	other works			SOLE	11.04.2011	15.11.2013	100%	10	10	0	0	0	1	10000 m	Not considered as the work is not clearly mentioned (DPR or Construction Supervision.)
6,7	other works			SOLE	11.04.2011	12.11.2013	100%	65					Not Specified		Rejected as no tunnel length given in the client certificate. Project no 6 and 7 are same project.



M/s Ayesa Ingenieria Y Arquitectura S.A.U in association with SA INFRASTRUCTURE CONSULTANTS PRIVATE LIMITED

DPR

Total DPR projects uploaded on Infracore (project no.) - 5,6,9,11,12,13,14,15,16,17,19,22,24,25,27,29,30
Total DPR projects last 7 years (project no.) - 5,17,24,25,27,29,30
Only last 7 year projects i.e. 30.01.2012 to 30.01.2019 has been considered for Evaluation by Manually

Claimed project as per bid (Page no.)	Assignment Type	Lane	Weightage	Association	Date of Start	Date of Completion	Weightage sole/JV/Associate	Total length of the project (Km)	Tunnel length (km)	No. of Tunnel				Remarks
										0 m to 499 m	500 m to 999 m	1000 m to 1499 m	1500 m & Tunnel details & Length as per Certificate above	
5	DPR	Railway Tunnel	1	JOINT VENTURE	31.10.2003	30.09.2012	40%	145.07	78.03	0	0	0	0	The bidder submitted certificate does not reflect the length of individual tunnels. Hence the project may be considered for minimum eligibility criterion but not considered for marking. This project not apostille by the respective agency. However, this project is being considered on the responsibility of the bidder.
17	DPR	Railway Tunnel	1	JOINT VENTURE	Not mentioned in certificate	Not mentioned in certificate	34%	200	2	0	0	0	0	Rejected as Start and completion date is not mentioned in the certificate.
24	DPR	4	1	SOLE	01.10.2009	01.01.2013	100%	15.5		No tunnel Work				Rejected as tunnel work not mentioned.
25	DPR	4	1	SOLE	01.01.2010	01.06.2012	100%	10.85	0.93	0	1	0	0	May be considered for minimum eligibility criteria. Rejected for marking as the length of tunnel is less than 1.94 Kms.
27	DPR	NOT SPECIFIED	1	JV	16.07.2010	NOT MENTIONED IN THE CERTIFICATE	60%(ASSU MED AS PER RFP)	7.56	7.56	0	1	0	1	Rejected as completion date is not mentioned in the certificate.
29	DPR	Metro Railway Tunnel	1	JV	01.11.2011	01.03.2013	50%	22	22	0	0	0	1	Specific length of awarded works i.e Batch 2 and Batch 3 is not mentioned in the certificate. Therefore, rejected.
30	DPR													Rejected as certificate in unknown language, no translation has been provided by the bidder.
										Total length considered for minimal eligibility criterion				42212 m



M/s Ayesa Ingenieria Y Arquitectura S.A.U in association with SA INFRASTRUCTURE CONSULTANTS PRIVATE LIMITED

Construction Supervision

Total Construction supervision projects uploaded on infracon (project no.) - 1,2,3,4,7,8,10,18,20,21,23,28

Total Construction supervision projects last 7 years (project no.) - 3,8,10,23,28

Only last 7 year projects i.e. 30.01.2012 to 30.01.2019 has been considered for Evaluation by Manually

Project Sr. No. As per Moved Data	Assignment Type	Lane	Weightage	Association	Date of Start	Date of Completion	Weightage sole/JV/Associate	Total length of the project (km)	Tunnel length (km)	0 m to 499 m	500 m to 999 m	1000m to 1499 m	No. of Tunnel 1500 m & Tunnel details & Length as per Certificate above	Remarks
3	TECHNICAL ASSISTANCE	RAILWAY WORK	1	-	10-01-2003	ONGOING								Rejected as the certificate dated 05.Oct. 2012 submitted by the bidder which does not reflect the completion of the project. Also, it can be concluded from the certificate that the contract value received by the bidder upto the issuance of the certificate is less than 90% of the total consultancy fee of the project. Hence, can be rejected.
8	TECHNICAL ASSISTANCE		1	SOLE	1.10.2005	11.09.2014	100%							Rejected as the project length or tunnel length not mentioned in the certificate.
10	SUPERVISION	Railway Tunnel	1	SOLE	1.5.2007	30.09.2012	100%	125.7	5.7256	0	2	1	1	Rejected-Only 44.13% of contract value has been executed upto 30.09.2012. Although, Tunnel work has been completed as mentioned in the certificate dated 30.09.2012 but the completion date of tunnel work is not mentioned in the certificate which may fall prior to last 7 years from the bid due date of the project for which RFP invited.
23	TECHNICAL ASSISTANCE	NOT SPECIFIED	1	SOLE	10.11.2008	09.11.2012	100%	107						Rejected as tunnel work not mentioned.
28	SUPERVISION	Railway Tunnel	1	JV	15.12.2010	27.02.2014	48%	15.8	7.23	0	0	0	1	Tunnel length= 7230 with share of 48% i.e. 7230*48=3470.4 m May be Accepted.
Total length considered for minimum eligibility criterion														3470.4 m

Other Works														
Only last 7 year projects i.e. 30.01.2012 to 30.01.2019 has been considered for Evaluation by Manually														
Project Sr. No. As per Moved Data	Assignment Type	Lane	Weightage	Association	Date of Start	Date of Completion	Weightage sole/JV/Associate	Total length of the project (km)	Tunnel length (km)	0 m to 500 m	500 m to 1000 m	1000m to 1500 m	No. of Tunnel 1500 m & Tunnel details & Length as per Certificate above	Remarks
26	O&M	6	1	SOLE	22.02.2010	01.08.2013	100%	6.1	-	-	-	-	-	Rejected as it is a O&M project and also tunnel work not mentioned.



M/s Energy Infratech Private Limited in association with Meinhardt Singapore Pte. Ltd. (India Branch)														
DPR														
Total DPR projects uploaded on Infracore (project no.) - 1,2,3,4,6														
Total DPR projects last 7 years (project no.) - 1,2,3,4,6														
Only last 7 year projects i.e. 30.01.2012 to 30.01.2019 has been considered for Evaluation by Manually														
Project Sr. No As per Moved Data	Assignment Type	lane	Weightage	Association	Date of Start	Date of Completion	Weightage of the project (km)	Tunnel length (km)	0 m to 499 m	500 m to 999 m	1000m to 1499 m	1500 m & above	No. of Tunnel Tunnel details & Length as per Certificate	Remarks
1	DPR	not specified	1	Sole	Not mentioned in certificate	90% work completed as on 02.02.2015	100%	13.8	0	0	0	1	13800 m	May be accepted (90% Work completed)
2	DPR	not specified	1	Sole	01.09.2009	01.08.2013	100%	25.722	0	0	7	2	Six tunnels of 1200 m each, One tunnel of 1322 m, Two tunnels of 8600 m	May be accepted This project not apostille by the respective agency. However, this project is being considered on the responsibility of the bidder.
3	DPR	not specified	1	Sole	19.11.2009	01.11.2012	100%	15.77	0	0	0	1	15770 m	May be accepted.
4	DPR							Same project as at serial no. 3						
6	DPR	not specified	1	Sole	28.08.2014	14.11.2015	100%	14.883	0	0	0	1	14883 m single stretch	May be accepted . This project not apostille by the respective agency. However, this project is being considered on the responsibility of the bidder.
Total length considered for minimum eligibility criterion									70175 m					
Construction Supervision														
Total Construction supervision projects uploaded on Infracore (project no.) - 5														
Total Construction supervision projects last 7 years (project no.) - 5														
Project Sr. No As per Moved Data	Assignment Type	lane	Weightage	Association	Date of Start	Date of Completion	Weightage of the project (km)	Tunnel length (km)	0 m to 499 m	500 m to 999 m	1000m to 1499 m	1500 m & above	Tunnel details & Length as per Certificate	Remarks
5	construction supervision	not specified	1	Sole	01.10.2013	01.12.2018	100%	25.722	0	0	7	2	Six tunnels of 1200 m each, One tunnel of 1322 m, Two tunnels of 8600 m each	May be accepted This project not apostille by the respective agency. However, this project is being considered on the responsibility of the bidder.
Total length considered for minimum eligibility criterion									25722 m					



Key Personnel does not fulfill the minimum qualification related to experience (as mentioned at Enclosure-B of TOR of RFP), then zero marks will only be assigned for that sub criteria, but the marks obtained by the CV of the Key Personnel will be carried forward for maximum 3 nos. key personnel for determining the total score of the firm. In case, a firm is H-1, then all such Key Personnel (whose CV scores less than 75% or who does not fulfill the minimum qualification) will have to be replaced by the firm at the time of contract negotiations by persons scoring at least 75% marks. The reduction in remuneration of such replacements shall be 5%, 10% and 15 % for 1st replacement, 2nd replacement and 3rd replacement respectively. In case more than 3 CV scores less than 75% marks or Team leader cum Highway Engineer scores less than 75% marks, the proposal shall be considered non-responsive.

6.1 Qualification and competence of following professional/sub-professional staff for the assignment shall be evaluated.

The weightage for various key staff are as under:

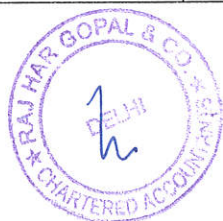
S. No.	Staff Position	Marks
1	Team Leader Cum Senior Tunnel Expert	15
2	Residential Engineer cum Excavation specialist	10
3	Senior Geotechnical Expert	10
4	Tunnel Design Engineer	10
5	Tunnel Safety Expert	8
6	Tunnel ventilation Cum E&M expert	7
7	Senior Geologist	7
8	Contract Specialist	3
9	Instrumentation & Control (SCADA) Expert	5
	Total	75

Note:-For Detail Analysis of the Qualifications and competence of the key staff for the assignment (As per Clause Enclosure-B of RFP)

The technical proposal should score at least 75 points to be considered responsive for financial evaluation.

6.1.1 (A) As per the clause 3.4(iv)(f) of sec-2 of RFP following CVs of key personnel of the applicants who are getting below 75% Marks:*

S.No of Proposal	Name of Bidders	CVs Below 75% Marks	Reasons for failure of CV's (As per the clause 3.4(iv) (f) of sec-2 of RFP)
1	M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.	1. Resident Engineer cum Excavation Specialist	Resident Engineer cum Excavation Specialist - Mr. Ashok Kumar Roy DOB 30/01/1967 -75% marks doesn't having the experience:- (i) Total Experience in supervision of major Tunnel Projects (Road/Rail/Metro/Hydro Tunnel). (ii) Experience in construction supervision of major tunnelling projects Road/Rail/Metro/Hydro Tunnel) in developed countries and Middle East Countries. (iii) Experience as Tunnel Excavation Expert or similar capacity in construction supervision of major tunnelling projects (Road/Rail/Metro/Hydro Tunnel). (iv) Employment with the Firm



2	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.	1.Senior Geo- Technical Expert 2.Tunnel Ventilation cum E&M Expert	1. Senior Geo- Technical Expert- Mr. Rocky Tay DOB 20/01/1957- 75% marks doesn't having the experience:- (i) Experience in Construction/ Construction Supervision of major tunnel projects (Road/Rail/Metro/Hydro Tunnel) in developed and Middle East countries. (ii) Employment with the Firm 2. Tunnel Ventilation cum E&M Expert -Mr. Neeraj Sahu DOB 4/9/1974 - 75% marks doesn't having the experience:- General Qualification (i) Graduate in Electrical/Mechanical Engineering (ii) Post-Graduate in Electrical/Mechanical Engineering
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Note:-For Detail Analysis of the Qualifications and competence of the key staff for the assignment (As per Clause 10 (iv) of Data Sheet of RFP)

6.1.1 (B) Following are the Firms/Applicants/Bidders are "Technically Non-Responsive"

Applicant No.	Name of Consultants	Remarks
1.	M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	The CVs of the applicant firm have been evaluated and it is noted that CVs of Resident Engineer cum Excavation Specialist (0), Tunnel Safety Expert (62.5), Tunnel Design Engineer (69), Senior Geotechnical Expert (45), Senior Geologist (74) and Instrumentation & Control (SCADA) Expert (45) score less than 75% marks. As per clause 3.4(iv)(f) of RFP, "In case more than 3 CVs score less than 75% or Team Leader cum Highway Engineer scores less than 75% marks, the proposal shall be considered non- responsive" . Therefore, above mentioned fact bidder has considered as non-responsive.
2.	M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.	M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) in association with SA Infrastructure Consultants Pvt. Ltd. doesn't possess the minimum eligibility requirement for "Experience in DPR/ Feasibility Study cum Preliminary Design Report of Tunnel and accordingly no one project of DPR/ Feasibility Study cum Preliminary Design Report of similar category of Tunnel work of 40% (i.e. 1.94 Km) of project length" . Further, also bidder doesn't possess the minimum eligibility requirement for "Supervision/Independent Engineer/Authority's Engineer of Tunnel and accordingly aggregate length works out to be less than equal to 3 times (i.e. 14.577 Km) of project length" . Therefore, bidder is not qualifying the eligibility criteria as per clause 11 (B) of Section-1 of RFP i.e. "Firm should also have prepared DPR/ Feasibility Study cum Preliminary Design Report for at least one project of similar category of Tunnel** work of 40% (i.e. 1.94 Km) of project length" and "The firm should have minimum experience of Project Supervision/Independent Engineer/Authority's Engineer of Tunnel** project of aggregate length equal to 3 times (i.e. 14.577



Summary Sheet of CV's		1/4			2/4			3/4			4/4		
S. No.	Details	M/s Systra S.A. In association with PEMIS Engineering Consultants Pvt. Ltd.			M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.			M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)			M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.		
	Total Marks	Name	Score	Assesed @75	Name	Score	Assesed @75	Name	Score	Assesed @75	Name	Score	Assesed @75
1	15	Mr. Apostolos Dimos	93	13.95	Non-Responsive								
2	10	Mr. Sindhu Mishra	0	0									
3	10	Mr. Nishith Gupta	69	6.9									
4	8	Mr. Turki Mohammad Said	62.5	5									
5	10	Mr. Christos Gioldasis	45	4.5									
6	7	Mr. Jang Bahadur Choudhary	74	5.18									
7	7	Mr. Dilgeer Singh	80	5.6									
8	3	Mr. Sanjeev Kumar Bhatnagar	87	2.61									
9	5	Mr. Sumanto Dutta	45	2.25									
	75			45.99			0.00			68.93			53.88



Team Leader cum Senior Tunnel Expert					
S. No.	Applicant No.	Max Marks	1/4	3/4	4/4
	Name of the Applicant		M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.
	Name of Key Personnel		Mr. Apostolos Dimos	Mr. Nikolaos Vittis	Mr. Nikolaos Kostopoulos
	Date of Birth of KP's Description		21649 Assessed	21499 Assessed	26/03/1958 Assessed
1	General Qualification	25	20	20	20
i)	Graduate in Civil/Mining Engineering or equivalent	20	20	20	20
ii)	Post-Graduate or chartered engineer in civil/Mining Engineering or equivalent	5	0	0	0
Note:-				-	Post Graduation marks not allotted because different specialization i.e. Environmental Geology
2	Adequacy for the Project	75			
	Total Professional Experience	7	7	7	7
	<25 years - 0 marks				
a i)	25 years - 5 marks		5	5	5
	Add 1 mark extra for each additional year of experience subject to maximum 2 (two) marks.		2	2	2
Note:-			Project no. 1 to 12 considered i.e. 30 Years 5 months	Project no. 1 to 15 i.e. 35 years 9 month	Project no. 1 to 17 i.e. 35years
	Total professional experience in handling major tunnelling projects (Road/Rail/Metro/Hydro Tunnel)	8	8	8	8
	<15 years – 0 marks				
a ii)	15 years – 6 marks		6	6	6
	Add 1 mark extra for each additional year of experience subject to maximum 2 (two) marks.		2	2	2
Note:-			Project no. 1 to 12 i.e. 30 Years 5 months	Project no. 4, 7, 8, 9, 10, 11, 12, 13, 14, 15 i.e. 23 years 1 month	Project no. 1, 5, 7, 8, 10, 12, 14, 15, 16, 17, i.e. 18 years
	Experience in major tunnel construction/construction supervision projects (Road/Rail/Metro/Hydro Tunnel) in Developed countries and Middle East Countries.	10	10	10	0
	<10 years – 0 marks				0
iii)	10 years - 7 marks		7	7	
	Add 1.5 marks extra for each additional year of experience subject to maximum 3 marks.		3	3	
Note:-			Project no. 1, 2, 3, 4, 7, 9, 10, 11 i.e. 22 years 8 months	Project no. 4, 7, 10 to 15 i.e. 20 years	Project no. 1, 5, 7, 8 i.e. 9 years
	Experience in Similar Capacity				
	Experience as Team Leader or similar capacity in construction supervision of major tunnel projects (Road/Rail/Metro/Hydro Tunnel) of length equal to or more than 1.94 Km	10	10	10	10
	<5 years - 0 marks				
b i)	5 years - 7 marks		7	7	7
	Add 1.5 marks extra for each additional year of experience subject to maximum 3 marks.		3	3	3
Note:-			Project no. 1,2,3, 4, 7, 9, 10, 11, 12 i.e. 19 years 1 month	Project no. 4, 7, 10, 12 to 15 i.e. 19 years	Project no. 5, 7, 8, 14,16 i.e. 8 years
	Experience as Team Leader or similar capacity of project Preparation/ Design of tunnel projects (Road/Rail/Metro/Hydro Tunnel) of length 1.94 Km or more	10	10	10	10
	1 Project - 8 marks		8	8	8
b ii)	Add 1 mark extra for each additional projects subject to maximum 2 marks.		2	2	2
Note:-			Project no. 5, 6 and 8	Project no. 8, 9, 11, 15	Project no. 10, 12, 15, 17
	Experience as Team Leader or similar capacity in construction supervision of tunnels (Road/Rail/Metro/Hydro Tunnel) of length 1.94 km or more	20	20	20	18.75
	< 2 projects - 0 marks				
	2 Projects - 15 marks		15	15	15
	Add 1.25 mark extra for each additional projects subject to maximum 5(five) marks		5	5	3.75
Note:-			Project no. 1,2,3, 4, 7, 9, 10, 11, 12	Project no. 4, 7, 10, 12 to 15	Project no. 5, 7, 8, 10, 14,16 are considered for evaluation NOT CONSIDERED:- other project not considered because Pr. No. 1,2,3 and 6- no similar capacity Pr. No. 4,9,11,13- no tunnel work Pr. No. 15 and 17 - DPR project.
	Experience in construction supervision of major tunnel projects (Road/Rail/Metro/Hydro Tunnel) using NATM	5	5	5	5
	1 project - 4 marks		4	4	4
c)	2 or more projects - 5 marks		1	1	1
Note:-			Project no. 7, 9, 10, 11, 12	Project no. 4, 12, 14	Project no.1, 8, 12,14, 16
	Employment with the Firm	5	3	0	0
	< 1 year -0			0	0
3	> 1 year to 2 years - 2 marks				
	> 2 years to 3 years - 3 marks		3		
	> 3 years - 5 marks				
Note:-			2 years 9 months with Systra	Employed with Systra since 01.12.2016 to 31.01.2018 now till date not employed with Systra	Employed with AECOM India Pvt Ltd.
	Total	100	93	90	78.75
	Weightage @ 75	15	13.95	13.5	11.8125
			1	3	4

Similar capacity considered- Team leader, Project manager, Resident Engineer, Sr. Tunnel Expert, Project Head, Project Director.



Resident cum Tunnel Excavation Expert					
S. No.	Applicant No.	Max Marks	1/4	3/4	4/4
	Name of the Applicant		M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.
	Name of Key Personnel		Mr. Sindhu Mishra	Mr. Lalit Kumar Verma	Mr. Rayees Ahmed
	Date of Birth of KP's		16/10/1970	26/08/1967	20/11/1974
	Description		Assessed	Assessed	Assessed
1	General Qualification	25	0	20	20
	I) Graduate in Civil/Mining Engineering	20	0	20	20
	II) Post graduate or Chartered in Civil/Mining Engineering	5	0	0	0
Note:-			The key personnel has provided two certificates with different year of passing as 1994-95 and March 2000 for same academic qualification i.e. B.E in civil Engineering Therefore, as per clause 1.9(a)(ii) for fraudulent practise, this CV is being awarded 0 marks and necessary action may be taken.		
2	Adequacy for the Project	75			
	Total Experience in supervision of major Tunnel Projects (Road/Rail/Metro/Hydro Tunnel) < 15 years - 0	15	0	15	13
a i)	15 years - 12 marks			12	12
	Add 1 mark extra for each additional year of experience subject to maximum 3 (three) marks			3	1
Note:-			Project no. 1,2,4,6,7,9,10,11 i.e. 15 years Project no. 2, 4, 6, 7, 10, 11 i.e. 15 years considered. NOT CONSIDERED:- Pr no. 1,3 - no tunnel work Pr. No. 5,8,9- DPR		
	Experience in construction supervision of major tunnelling projects (Road/Rail/Metro/Hydro Tunnel) in developed countries and Middle East Countries < 7 years - 0	10	0	10	0
a ii)	7 years - 7 marks		0	7	0
	Add 1.5 marks extra for each additional year of experience subject to maximum 3 (three) marks.			3	
Note:-			Project no. 6, 7, 9, 10, 11 i.e. 12 years 10 months Project no. 7 i.e. 2 years 5 month considered and NOT CONSIDERED:- All other project done in India		
	Experience as Tunnel Excavation Expert or similar capacity in construction supervision of major tunnelling projects (Road/Rail/Metro/Hydro Tunnel) < 10 years - 0	10	0	10	10
b i)	10 years - 7 marks		0	7	7
	Add 1.5 marks extra for each additional year of experience subject to maximum 3 (three) marks.			3	3
Note:-			Project no. 2, 4, 7, 9, 10, 11 i.e. 17 years 4 months Project no. 4, 6, 7, 10, 11 i.e. 15 Years 2months		
	Experience as Tunnel Excavation Expert or similar capacity in construction supervision of tunnel projects (Road/Rail/Metro/Hydro Tunnel) of minimum length of 1.94 km (minimum one year supervision in a project) < 2 projects - 0	20	0	20	20
ii)	2 projects - 15 marks		0	15	15
	Add 2.5 marks extra for each additional projects subject to 5 (five) marks.			5	5
Note:-			Project no. 2, 4, 6, 7, 9, 10, 11 Project no. 4, 6, 7, 10, 11		
	Experience as Tunnel Excavation Expert or similar capacity in tunnel design/ DPR/ preparation / feasibility study/design review involving major tunnel projects (Road/Rail/Metro/Hydro Tunnel) (minimum 1 year experience in a project) 1 project - 7 marks	10	0	10	9
iii)	Add 1 mark extra for each additional projects subject to maximum 3 (three) marks.			7	7
				3	2
Note:-			Project no. 3, 5, 8, 12 Project no. 5, 8, 9 and NOT CONSIDERED:- all other project are construction supervision projects.		
	Experience in construction of major tunnel projects (Road/Rail/Metro/Hydro Tunnel) using NATM 1 project - 3 marks	5	0	5	5
c	Add 1 mark extra for each additional projects subject to maximum 2 (two) marks.			3	3
				2	2
Note:-			Project no.1, 2, 4 Project no. 4, 6, 10, 11		
	Employment with the Firm < 1 year -0	5	0	0	0
3	> 1 year to 2 years - 2 marks			0	0
	> 2 years to 3 years - 3 marks				
	> 3 years - 5 marks				
Note:-			Employed with Kelihai Kaihatsu Kogyo Co. Ltd Employed with EPTISA India Pvt Ltd		
	Total	100	0	90	77
	Weightage @ 75	10	0	9	7.7
			1	3	4

Similar capacity considered- Resident Engineer, Sr. Tunnel Expert, Project Manager, Sr. Tunnel Engineer.



Tunnel Design Engineer					
S. No.	Applicant No.	Max Marks	1/4	3/4	4/4
	Name of the Applicant		M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.
	Name of Key Personnel		Mr. Nishith Gupta	Mr. Jaime Qtazua	Mr. Hussein Ahmed Faizi
	Date of Birth of KP's		19/05/1966	09-11-1966	27/03/1958
	Description		Assessed	Assessed	Assessed
1	General Qualification	25	20	20	20
	I) Graduate in Civil/Mining Engineering	20	20	20	20
	II) Post-Graduate in Engineering (Structural)/Mining Engineering	5	0	0	0
Note:-			Post Graduation different Specialization	-	-
2	Adequacy for the Project	75			
	Total Experience Professional Experience	15	11	15	15
	< 20 years -0				
a i)	20 years -11		11	11	11
	Add 1 mark extra for each additional year of experience subject to maximum 4 (four) marks			4	4
Note:-			Project no. 1 to 23 i.e. 20 years 11 months	Project no. 1 to 19 i.e. 25 years 8 month	Project no. 1 to 15 i.e. 34 years
	Experience of design/ project preparation/ preliminary study involving major Tunnel (Road/Rail/Metro/Hydro Tunnel) projects in developed countries and Middle East Countries	10	0	10	10
a ii)	<10 years - 0		0		
	10 years - 7 marks			7	7
	Add 1 mark extra for each additional year of experience subject to maximum 3 (three) marks			3	3
Note:-			Project no. 6, 7, 9, 10, 11, 13 i.e. 5 years considered. NOT CONSIDERED:- In pr. No. 2 tunnel length < 1.5 km In pr. No. 5- No tunnel work	Project no. 1 to 4, 6, 7 to 11, 13, 15 i.e. 17 years 8 month	Project no. 1, 4, 3, 6, 8, 9, 11, 12, 13, 15 i.e. 26 years
	Experience in tunnel design (Road/Rail/Metro/Hydro Tunnel) works in similar capacity	10	8	10	10
b i)	<12 years - 0				
	12 years - 7 marks		7	7	7
	Add 1 mark extra for each additional year of experience subject to maximum 3 (three) marks.		1	3	3
Note:-			Project no. 6, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23 i.e. 13 years 2 months NOT CONSIDERED:- In all other projects key personnel has not worked in similar capacity and project no. 5 does not involve any tunnel work.	Project no. 1 to 4, 6 to 11, 13, 15, 16, 18, 19 i.e. 21 years	Project no. 4, 6, 8, 9, 11, 12, 13, 15, 14 i.e. 17 years considered. NOT CONSIDERED:- All other projects are not done in similar capacity. Chief Engineer, tunnel expert considered similar capacity.
	Experience in similar capacity in Project Preparation/DPR involving design of tunnels (Road/Rail/Metro/Hydro Tunnel) of more than 1.94 km length (Min. 1 year experience in a project)	15	15	15	12
ii)	< 3 projects - 0				
	3 projects - 11 marks		11	11	11
	Add 1 mark extra for each additional projects subject to maximum 4 (four) marks.		4	4	1
Note:-			Project no. 6, 11, 13, 14, 15, 19, 20	Project no. 1 to 4, 6 to 8, 10, 11, 13, 15, 16, 18, 19	Project no. 4, 6, 8, 11
	Experience in similar capacity in construction/construction supervision projects involving design/design review of tunnels of more than 1.94 Km length (Min. 1 year experience in project)	10	0	10	10
iii)	<2 projects - 0		0		
	2 projects - 7 marks			7	7
	Add 1.5 mark extra for each additional projects subject to maximum 3(three) marks.			3	3
Note:-			Project no. 3 considered. NOT CONSIDERED:- All other projects are of DPR/Feasibility study.	Project no. 5, 12, 14, 17	Project no. 6, 12, 10, 13, 14, 15
	Experience in innovation tunnel design (Road/Rail/Metro/Hydro Tunnel) like immersed tunnel and sub-sea bored tunnel	5	5	4	0
c i)	1 projects - 4 marks		4	4	0
	2 or more projects -5 marks		1		
Note:-			project no. 1 and 4	Project no. 15 NOT CONSIDERED:- No experience of innovative Tunnel Design in other projects	No experience in innovation tunnel design
	Experience in design tunnel projects(Road/Rail/Metro/Hydro Tunnel) using NATM	5	5	5	5
c ii)	1 project - 4 marks		4	4	4
	2 or more projects - 5 marks		1	1	1
Note:-			Project no. 4, 14, 15	Project no. 1, 3, 6, 9, 14, 18, 19	Project no. 6, 13, 14, 15
	Employment with the Firm	5	5	5	0
	< 1 year -0				0
3	> 1 year to 2 years - 2 marks				
	> 2 years to 3 years - 3 marks				
	> 3 years - 5 marks		5	5	
Note:-			Employed with Systra Since 01.09.2015 to till date	Employed with TPF Getinsa Euroestudios S.L	Employed with Malaysia High Speed Rail Corporation
	Total	100	69	94	82
	Weightage @ 75	10	6.9	9.4	8.2
			1	3	4

Similar capacity considered- Tunnel Design Engineer, Team leader, Project manager, Sr. Tunnel Expert, Project Head, Project Director, General Manager, Chief Engineer.



TUNNEL SAFETY EXPERT					
S. No.	Applicant No.	Max Marks	1/4	3/4	4/4
	Name of the Applicant		M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.
	Name of Key Personnel		Mr. Turki Mohammad Said	Mr. Shamsha Ali	Mr. Janardhanamvaratharajan
	Date of Birth of KP's		15/01/1958	01-09-1971	01-09-1961
	Description		Assessed	Assessed	Assessed
1	General Qualification	25	20	25	25
I)	Post-Graduate In Civil/Mining Engineering	20	20	20	20
II)	Any professional Certification from a recognized/statutory body on safety/health/shot firer	5	0	5	5
Note:-					
2	Adequacy for the Project	75			
	Total Professional Experience	15	0	11	15
	< 20 years -0		0		
a i)	20 years -11			11	11
	Add 1 mark extra for each additional year of experience subject to maximum 4 (four) marks.				4
Note:-					
			Project no. 5 to 14 i.e. 15 years	Projectno. 1 to 9 i.e. 20 Yeeers 7 month	Project no. 1 to 19 i.e. 34 Years
	Experience Tunnel (Road/Rail/Metro/Hydro Tunnel) Safety Works	15	15	15	15
	<10 years - 0				
ii)	10 years - 11 marks		11	11	11
	Add 1 mark extra for each additional year of experience subject to maximum 4 (four) marks		4	4	4
Note:-					
			Project no. 9, 10, 13, 14 i.e. 14 years	Projectno. 1 to 9 i.e. 20 Yeeers 7 month	Project no. 3 to 6, 8, 11, 14, 15, 16, 19 i.e. 14 years
	International exposure in tunnel safety works in developed countries and Middle East Countries	10	10	10	7
	<7 years - 0				
iii)	7 years - 7 marks		7	7	7
	Add 1 mark extra for each additional projects subject to maximum 3 (three) marks.		3	3	
Note:-					
			Project no. 9, 10, 13, 14 i.e. 14 years	Project no. 3 to 9 i.e. 17 years 6 month	Project no. 3, 4, 5 i.e. 7 Years considered. NOT CONSIDERED:- Pr. No. 2 - no tunnel work All other projects done in India.
b i)	Experience in similar capacity of Tunnel Safety Audits during construction stage of tunnel projects (Road/Rail/Metro/Hydro Tunnel) of minimum length of 1.94 Km	20	17.5	20	17.5
	< 2 projects - 0				15
	2 projects - 15 marks		15	15	2.5
	Add 1.25 mark extra for each additional projects subject to maximum 5 (five) marks.		2.5	5	
Note:-					
			Project no. 9, 13, 14 considered. NOT CONSIDERED:- In all other projects Tunnel Safety Audits during construction stage is not done.	Project no. 1, 2, 6, 7, 8, 9	Project no. 11, 14, 15, 16 Experience in Tunnel Safety Audits during construction stage of tunnel projects not shown.
b ii)	Experience in similar capacity of Tunnel Safety Audits in design stage on tunnel projects (Road/Rail/Metro/Hydro Tunnel)	10	0	10	0
	1 project - 8 marks			8	0
	2 or more - 10 marks			2	
Note:-					
			Experience in Tunnel Safety Audits in design stage on tunnel projects not shown.	Project no, 3, 4	Experience in Tunnel Safety Audits in design stage on tunnel projects not shown.
3	Employment with the Firm	5	0	0	0
	< 1 year -0		0	0	0
	> 1 year to 2 years - 2 marks				
	> 2 years to 3 years - 3 marks				
	> 3 years - 5 marks				
Note:-					
			Employed with Arabian BEMCO Contracting Co. Ltd	Employed with Astad Management Projects Qatar	Employed with L n T Heavy Civil Infra
	Total	100	62.5	91	79.5
	Weightage @ 75	8	5	7.28	6.36
			1	3	4

Similar capacity considered- Safety Engineer



Senior Geotechnical Expert					
S. No.	Applicant No.	Max Marks	1/4	3/4	4/4
	Name of the Applicant		M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.
	Name of Key Personnel		Mr. Christos Gioldasis	Mr. Konstantinos Stergiopoulos	Mr. Rocky Tay
	Date of Birth of KP's		05-09-1963	01-07-1961	20/01/1957
	Description		Assessed	Assessed	Assessed
1	General Qualification	25	20	20	20
	I) Graduate in Civil Engineering / Masters in Engineering Geology or equivalent from a recognized university	20	20	20	20
	II) Post Graduate in Rock Mechanics / Foundation Engineering/ Tunnel Engineering	5	0	0	0
Note:-					
2	Adequacy for the Project	75			
a					
	Total Professional Experience	15	13	15	15
	<20 years - 0				
i)	20 years - 11 marks		11	11	11
	Add 1 mark extra for each additional year of experience subject to maximum 4 (four) marks.		2	4	4
Note:-					
			Project no. 1 to 9 i.e. 22 years 3 month	Project no. 1 to 16 i.e. 33 years	Project no. 1 to 44 i.e. 39 years
	Experience in Construction/ Construction Supervision of major tunnel projects (Road/Rail/Metro/Hydro Tunnel) in developed and Middle East countries	15	12	15	0
	ii) < 12 years - 0				0
	12 years - 11 marks		11	11	
	Add 1 mark extra for each additional year of experience subject to maximum 4 (three) marks		1	4	
Note:-					
			Project no. 4, 5, 6 i.e. 13 years 10 months considered. NOT CONSIDERED:- Pr. No. 1, 2- construction work not done. Pr. No. 3- tunnel length not mentioned Pr. No. 7, 8, 9- not developed countries.	Project no. 3 to 5, 7, 9, 11, 13, 14, 16 i.e. 20 years 3 months	Project no. 11, 26, 28 i.e. 8 years considered. NOT CONSIDERED:- Pr. No. 1 to 6, 8, 9, 17 to 24, 29, 30, 31, 33 to 41, 44- no tunnel work. Pr. No. 7, 10, 27, 32, 43- DPR project. Pr. No. 11 to 15, 42- projects done in china and Malaysia. Pr. No. 25- tunnel length less than 1.5 Km.
	Experience as Geotechnical engineer or similar capacity in construction/ construction supervision of at least 4 tunnel projects (Road/Rail/Metro/Hydro Tunnel) of length equal to or more than 1.94 km	25	0	25	19
	b i) < 4 projects - 0		0		
	4 projects - 17 marks			17	17
	Add 2 mark extra for each additional project subject to maximum 8 (eight) marks.			8	2
Note:-					
			Project no. 8 considered. NOT CONSIDERED:- In all other project there is no similar capacity. In project no. 9 there is no tunnel work. In project no. 2- tunnel length < 1.94 km.	Project no. 3 to 5, 7, 9, 11, 13, 14, 16	Project no. 11, 26, 28, 13, 42 considered. NOT CONSIDERED:- Pr. No. 1 to 6, 8, 9, 14, 16, 17 to 24, 29, 30, 31, 33 to 41, 44- no tunnel work. Pr. No. 7, 10, 12, 27, 32, 43- DPR project. Pr. No. 25, 15- tunnel length less than 1.94 Km.
	Experience as Geotechnical engineer or similar capacity in design/project preparation of tunnel projects (Road/Rail/Metro/Hydro Tunnel) of at least 1.94 km length	15	0	15	15
	ii) < 2 projects - 0		0		
	2 projects - 11 marks			11	11
	Add 2 marks extra for each additional projects subject to maximum 4 (four) marks.			4	4
Note:-					
			Project no. 8 considered. NOT CONSIDERED:- In all other project there is no similar capacity. In project no. 9 there is no tunnel work. In project no. 2- tunnel length < 1.94 km.	Project no. 2, 6, 8, 10, 12, 15	Project no. 7, 12, 26, 27, 42, 43
	Employment with the Firm	5	0	0	0
	< 1 year - 0		0	0	0
3	> 1 year to 2 years - 2 marks				
	> 2 years to 3 years - 3 marks				
	> 3 years - 5 marks				
Note:-					
			Employed with EPTISA	Employed with Sotiriopoulos and Associates SA	Employed with Meinhardt Infrastructure & Environment Ltd.
	Total :	100	45	90	69
	Weightage @ 75	10	4.5	9	6.9
			1	3	4

Similar capacity considered- Geotechnical Expert, Geotechnical Engineer, Project Manager.



SR. GEOLOGIST					
S. No.	Applicant No.	Max Marks	1/4	3/4	4/4
	Name of the Applicant		M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.
	Name of Key Personnel		Mr. Jang Bahadur Choudhary	Mr. Sarvesh Misra	Mr. Pankaj Punetha
	Date of Birth of KP's		15/11/1971	13/01/1955	10-08-1956
	Description		Assessed	Assessed	Assessed
	General Qualification	25	25	25	25
1	i) Masters in Geology /Applied Geology from recognized university	25	25	25	25
2	Adequacy for the Project	75			
Note:-					
	Total Professional Experience	20	0	20	20
	<20 years - 0		0		
a i)	20 years - 15 marks			15	15
	Add 1 mark extra for each additional year of experience subject to maximum 5 (five) marks.			5	5
Note:-			Project no. 3to 14 I.e. 18 Years 5 months	Project no. 1 to 14 I.e. 26 years	Project no. 1 to 12 I.e.29 years
	Experience in major Tunnel construction/construction supervision Projects (Road/Rail/Metro/Hydro Tunnel) in Himalayan Region using NATM technology	15	15	15	15
ii)	< 5 years - 0				
	5 years - 12 marks		12	12	12
	Add 1.5 marks extra for each additional year subject to maximum 3 (three) marks		3	3	3
Note:-			Project no. 6, 7, 9, 10,12,13 and 14 I.e.10 years	Project no. 6, 7, 10, 11, 12, 13, 14 I.e. 14 years 6 month	Project no. 9, 10, 11 I.e. 7 years 2 month
	Experience in major Tunnel (Road/Rail/Metro/Hydro Tunnel) Construction works in similar capacity	15	14	15	15
b i)	< 7 years - 0				
	7 years - 12 marks		12	12	12
	Add 1 mark extra for each additional year of experience subject to maximum 3 (three) marks		2	3	3
Note:-			Project no. 6, 7, 9, 10, 12 and 14 I.e.9 years 5months	Project no. 1, 4, 6, 7, 10, 11, 12, 13, 14 I.e. 20 years 9 month	Project no. 6, 9, 10, 11 I.e. 10 years
	Experience in similar capacity in project preparation/DPR involving of major tunnel projects (Road/Rail/Metro/Hydro Tunnel) . (Min 1 year experience in a project)	10	10	10	10
ii)	<2 projects - 0				
	2 projects -7 marks		7	7	7
	Add 1.5 marks extra for each additional projects subject to maximum 3 (three) marks.		3	3	3
Note:-			Project no. 3, 4, 5, 11	Project no. 2, 3, 5, 8, 9	Project no. 2 to 5, 7, 8, 12
	Experience in similar capacity in highway/Road/Rail/Metro/Hydro tunnel construction/construction supervision with minimum length of 1.94 Km	10	10	10	10
b iii)	< 2 projects - 0				
	2 project - 7 marks		7	7	7
	Add 1.5 marks extra for each additional projects subject to maximum 3 (three) marks.		3	3	3
Note:-			Project no. 6, 7, 9, 10,12, 14	Project no. 1, 4, 6, 7, 10, 11, 12, 13, 14	Project no. 6, 9, 10, 11
	Employment with the Firm	5	0	0	2
	< 1 year -0		0	0	
3	> 1 year to 2 years - 2 marks				2
	> 2 years to 3 years - 3 marks				
	> 3 years - 5 marks				
Note:-			Employed with SMEC India Pvt Ltd	Employed with National Hydroelectric Power Corporation Ltd.	Employed with Energy Infratech Pvt Ltd
	Total :	100	74	95	97
	Weightage @ 75	7	5.18	6.65	6.79
			1	3	4

Similar capacity considered- Geologist,Sr. Geologist,assistant G.M, Deputy Manager.



TUNNEL VENTILATION CUM E&M EXPERT					
S. No.	Applicant No.	Max Marks	1/4	3/4	4/4
	Name of the Applicant		M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.
	Name of Key Personnel		Mr. Dilgeer Singh	Mr. Rajnish Kumar Sharma	Mr. Neeraj Sahu
	Date of Birth of KP's		03-11-1972	16/03/1956	09-04-1974
	Description		Assessed	Assessed	Assessed
1	General Qualification	25	20	25	0
	I) Graduate in Electrical/Mechanical Engineering	20	20	20	
	II) Post-Graduate in Electrical/Mechanical Engineering	5	0	5	
Note:-					The key personnel has provided qualification degree in the course of B.E in automobile engineering, which has not been considered equivalent to the desired qualification as per RFP i.e. Graduate in Electrical/Mechanical Engineering.
2	Adequacy for the Project	75			
	Total Professional Experience	20	20	20	0
	< 15 years - 0				
a i)	15 years - 15 marks		15	15	
	Add 1.25 mark extra for each additional year of experience subject to maximum 5 (five) marks.		5	5	
Note:-			Project no. 1 to 5 i.e. 20 years 2 months	Project no. 1 to 16 i.e. 38 years	
	Experience as Tunnel Ventilation Expert or similar capacity in Construction Supervision/IC of major tunnel works (Road/Rail/Metro/Hydro Tunnel)	20	20	20	0
	< 7 years - 0				
b i)	7 years - 10 marks		10	10	
	Add 2.5 marks extra for each additional year of experience subject to maximum 10 (ten) marks.		10	10	
Note:-			Project no. 1 to 3 i.e. 16 years 5 months	Project no. 3, 4, 10 to 16 i.e. 21 years	
	Experience as Tunnel Ventilation Expert or similar capacity in construction supervision of tunnel (Road/Rail/Metro/Hydro Tunnel) projects of minimum length of 1.94 km (Min 1 year experience in project)	15	10	15	0
	<3 projects - 0				
ii)	3 projects - 10		10	10	
	Add 2.5 marks extra for each additional projects subject to maximum 5 (five) marks			5	
Note:-			Project no. 1, 2, 3 considered. NOT CONSIDERED:- Project no. 4,5- tunnel length <1.94 Km	Project no. 4, 10, 11, 12, 13, 14, 15, 16	
	Experience as Tunnel Ventilation Expert or similar capacity in design/DPR of tunnel (Road/Rail/Metro/Hydro Tunnel) projects of minimum length of 1.94 km (Min 1 year experience in project)	15	10	15	0
	<3 projects - 0				
iii)	3 projects - 10		10	10	
	Add 2.5 marks extra for each additional projects subject to maximum 5 (five) marks			5	
Note:-			Project no. 1, 2, 3 considered. NOT CONSIDERED:- Project no. 4,5- tunnel length <1.94 Km	Project no. 5, 6, 7, 8, 9	
	Employment with the Firm	5	0	0	0
	< 1 year - 0		0	0	
3	> 1 year to 2 years - 2 marks				
	> 2 years to 3 years - 3 marks				
	> 3 years - 5 marks				
Note:-			Employed with Reliance Info COM Limited	Employed with Greenko Energy Pvt Ltd	
	Total	100	80	95	0
	Weightage @ 75	7	5.6	6.65	0
			1	3	4

Similar capacity considered- Senior E&M Expert, Tunnel Ventilation Expert, PROJECT MANAGER (E&M), Superintending Engineer, Chief Engineer, Executive Engineer.



Contract Specialist					
S. No.	Applicant No.	Max Marks	1/4	3/4	4/4
	Name of the Applicant		M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.
	Name of Key Personnel		Mr. Sanjeev Kumar Bhatnagar	Mr. India Hema Chandrudu	Mr. Sanjeev Kumar Agarwal
	Date of Birth of KP's Description		29/08/1963 Assessed	22/05/1969 Assessed	25/07/1967 Assessed
1	General Qualification	25	20	20	25
	I) Graduate in Civil Engineering	20	20	20	20
	II) Post-Graduate in Law/ Dispute Resolution/Contract Management	5	0	0	5
Note:-					
2	Adequacy for the Project	75			
a i)	Total Professional Experience in Contract Management	20	20	20	20
	<20 years - 0				
	20 years - 15 marks		15	15	15
	Add 1 mark extra for each additional year of experience subject to maximum 5 (five) marks		5	5	5
Note:-			Project no. 1 to 15,16, 17, 18,19,22,23, 24 I.e. 29 years	Project no. 1 to 23 I.e. 25 years 5 months	Project no. 2 to 24 I.e. 27 years
b i)	Experience as Contract Expert or similar capacity in major roads/ highway projects	15	15	15	14
	< 10 years - 0				
	10 years - 10 marks		10	10	10
	Add 1 mark extra for each additional year of experience subject to maximum 5 (five) marks		5	5	4
Note:-			Project no. 8 to 15, 17, 18, 19, 21 to 24 I.e. 16 years 6 month	Project no. 5, 7 to 9, 11 to 15, 17, 19 to 23 I.e. 15 years 9 month	Project no. 3,5,9, 11, 14 to 22 I.e. 14 years 4 month considered. NOT CONSIDERED:- Pr. No. 1 to 8,12- no similar capacity. Pr. No. 10,13-no highway work.
c i)	Experience of contract management of major roads/ highway projects over Rs 500 crore including experience of handling variation orders, claims of the contractor	15	12	15	0
	< 4 projects - 0				
	4 projects - 12		12	12	
	Add 1 mark extra for each additional project subject to maximum 3 (three) marks		0	3	
Note:-			Project no. 15, 17,20,21	Project no. 13, 14, 15, 19, 20, 23	Project no. 17, 19
c ii)	Experience of Handling Arbitration cases/Dispute resolution/Adjudication in respect of any road/highway project	20	20	20	20
	1 project - 10 marks		10	10	10
	Add 2.5 marks extra for each additional project subject to maximum 10 (ten) marks		10	10	10
Note:-			Project no. 9, 13,15,20, 24	Project no. 19, 20, 21, 22, 23	Project no. 9, 16, 17
3	Employment with the Firm	5	0	0	0
	< 1 year -0		0	0	0
	> 1 year to 2 years - 2 marks				
	> 2 years to 3 years - 3 marks				
	> 3 years - 5 marks				
Note:-			Employed with Yogma	Employed with Wadia Yechno Engineering Services Ltd	Employed with ICT Pvt Ltd
	Total	100	87	90	79
	Weightage @ 75	3	2.61	2.7	2.37
			1	3	4

Similar capacity considered- Contract Specialist,Contract Expert, Contract Engineer.



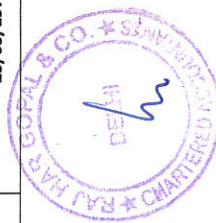
INSTRUMENTATION AND CONTROL (SCADA) EXPERT					
S. No.	Applicant No.	Max Marks	1/4	3/4	4/4
	Name of the Applicant		M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.
	Name of Key Personnel		Mr. Sumanto Dutta	Mr. Anurag Swain	Mr. Karamvir Singh
	Date of Birth of KP's		12-08-1960	07-01-1965	29/08/1970
	Description		Assessed	Assessed	Assessed
1	General Qualification	25	20	25	20
	I) Graduate in IT/ Comp Sc./ Electrical/ Electronics/Civil/ Instrumentation/ Mechanical	20	20	20	20
	II) Post graduate Engineering	5	0	5	0
Note:-					
2	Adequacy for the Project	75			
	Total Professional Experience	15	15	15	15
	< 15 years - 0				
a i)	15 years - 12 marks		12	12	12
	Add 1 mark extra for each additional year of experience subject to maximum 3 (three) marks		3	3	3
Note:-					
			Project no. 1 to 17 I.e. 33 years	Project no. 1 to 11 I.e. 26 years 4 month	Project no. 3 to 16 I.e. 19 years
	Experience in system requirement, installation and commissioning of all the subsystems and equipment required for remote operation and control devices similar to SCADA in any infrastructure project.	25	0	25	25
ii)	< 10 years - 0		0		
	10 years - 15 marks			15	15
	Add 2.5 marks extra for each additional year of experience subject to maximum 10 marks			10	10
Note:-					
			Project no. 6,9 I.e. 7 year considered. NOT CONSIDERED:- 1 to 5,7,8,10 to 15-Experience in system requirement, installation and commissioning of all the subsystems and equipment required for remote operation and control devices similar to SCADA in any infrastructure project.	Project no. 3, 4, 5, 6, 7, 8, 9, 10, 11 I.e. 23 years 8 month	Project no. 3, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 16 I.e. 18 years
	Experience in at least 7 years experience in hardware configuration, system tuning, application development, documentation including operation and maintenance	15	0	15	0
iii)	< 7 years - 0		0		0
	7 years - 10			10	
	Add 1.25 marks extra for each additional year of experience subject to maximum of 5 marks			5	
Note:-					
			Experience in at least 7 years experience in hardware configuration, system tuning, application development, documentation including operation and maintenance, not shown.	Project no. 3, 4, 5, 6, 7, 8, 9, 10 I.e. 23 years 8 month	Project no. 5, 7, 8 I.e. 3 years considered. NOT CONSIDERED:- Experience in hardware configuration, system tuning, application development, documentation including operation and maintenance is not shown in other projects.
	Experience in handling at least 2 surveillance and security systems projects	15	10	15	15
iv)	2 project - 10 marks		10	10	10
	Add 2.5 marks extra for each additional project subject to maximum 5 (Five) marks.			5	5
Note:-					
			Project no. 9, 7 NOT CONSIDERED:- Experience in handling at least 2 surveillance and security systems projects not shown.	Project no. 3, 4, 15, 11	Project no. 3, 5, 7, 11, 16
	Employment with the Firm	5	0	0	0
3	< 1 year -0		0	0	0
	> 1 year to 2 years - 2 marks				
	> 2 years to 3 years - 3 marks				
	> 3 years - 5 marks				
Note:-					
			Employed with FreeLance Consultant	Employed with Home Power Consultancy Ltd	Employed with Egis India Consulting Engineers Pvt Ltd
	Total	100	45	95	75
	Weightage @ 75	5	2.25	4.75	3.75
			1	3	4



Authority's Engineer for Supervision of Construction of Stand-alone Ring Road / Bypass around Jammu City in the state of J&K (4 Lane, Length-58.2Km) on Engineering Procurement and Construction (EPC) Basis.

Name & DoB. Of Key Personnel

S.No.	Applicant No.	1/4	2/4	3/4	4/4
	Key Position:	M/s Sysyra S.A. in association with M/s PEMS Engineering Consultants Pvt. Ltd.	M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.	M/s Tpf Getinsa Eurostudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	M/s Energy Infratech Pvt. Ltd. In association with Meinhardt Singapore Pte. Ltd.
1	Team Leader Cum Senior Tunnel Expert	Mr. Apostolos Dimos 04-09-1959	Mr. Vinay Khetarpal 27/12/1965	Mr. Nikolaos Vittis 10-11-1958	Mr. Nikolaos Kostopoulous 26/03/1958
2	Resident Engineer cum Excavation Specialist	Mr. Sindhu Mishra 16/10/1970	Mr. Ashok Kumar Roy 30/01/1967	Mr. Lalit Kumar Verma 26/08/1967	Mr. Rayees Ahmed 20/11/1974
3	Senior Geo- Technical Expert	Mr. Christos Gioldasis 09-05-1963	Mr. Sindu Kumar Bagati 19/10/1970	Mr. Konstantinos Stergiopoulos 07-01-1961	Mr. Rocky Tay 20/01/1957
4	Tunnel Design Engineer	Mr. Nishith Gupta 19/05/1966	Mr. Honey Mehra 28-11-1969	Mr. Jaime Qtazua 11-09-1966	Mr. Hussein Ahmed Faizi 27/03/1958
5	Tunnel Safety Expert	Mr. Turki Mohammad Said 15/01/1958	Mr. M G Mohan 01-06-1968	Mr. Shamsa Ali 09-01-1971	Mr. Janardhanamvaratharajan 09-01-1961
6	Tunnel Ventilation cum E&M Expert	Mr. Dilgeer Singh 11-03-1972	Mr. Ajit Kumar Swain 23/01/1967	Mr. Rajnish Kumar Sharma 16/03/1956	Mr. Neeraj Sahu 04-09-1974
7	Senior Geologist	Mr. Jang Bahadur Choudhary 15/11/1971	Mr. Gajendra Pratap Singh 10-07-1975	Mr. Sarvesh Misra 13/01/1955	Mr. Pankaj Punetha 08-10-1956
8	Contract Specialist	Mr. Sanjeev Kumar Bhatnagar 29/08/1963	Mr. Dipak Kumar 31/05/1971	Mr. India Hema Chandrudu 22/05/1969	Mr. Sanjeev Kumar Agarwal 25/07/1967
9	Instrumentation & Control (SCADA) Expert	Mr. Sumanto Dutta 08-12-1960	Mr. Biju C Gopakumar 25/05/1970	Mr. Anurag Swain 01-07-1965	Mr. Karamvir Singh 29/08/1970



TEAM LEADER CONSULTANT TUNNEL EXPERT
NICOLAOS VITIS

Sno	Work Name	Client	Designation	Employer	Project Cost (€)	Start Date	Completion Date	Country	Maximum Individual Length of tunnel (m)	Nature of assignment	No. of years	Remarks
1	Construction of Community roads and utilities, Madinat Yanbu' Al-Sinayah in Kingdom of Saudi Arabia	Govt. of Saudi Arabia	Project Engineer	Associated Engineers International	20	01-05-1982	30-04-1984	Saudi Arabia	0	Supervision (EPC)	1.99722222	
2	1. Construction of 90 Km long 4 lane Amman Outer Ring Road in Amman, Jordan, 2. Construction of 29 Km long 4 lane Ma'an-Ras Naqab Highway in Jordan, 3. Construction of 88 Km long 4 lane Ras El Naqab Highway in Jordan	Govt. of Jordan	Project Engineer	Associated Engineers International	500	01-05-1984	30-06-1988	Jordan	0	Supervision (EPC)	4.16388889	
3	Design and Construction of Milos Island Airport Extension Project in the country of Greece	Milos Island International Airport Authority	Project Manager	Freelance Expert	910	01-07-1988	31-05-1990	Greece	0	Execution	1.91666667	
4	Construction of 2400 meter long Hydro tunnel by using NATM for Hydro electric project on Nestos river in Greece	Hydro Electric Corporation	Project Manager	Freelance Expert	780	01-06-1990	31-07-1993	Greece	2400	Supervision (EPC)	3.16666667	
5	Construction of Warehouse project for Greek Pharmaceutical and construction of Residential complex parking in Athens	Govt. of Greece	Project Manager	Freelance Expert	200	01-08-1993	31-03-1995	Greece	0	Execution	1.66666667	
6	Construction and upgrade of North Highway of Crete in the country of Greece; Project included construction of bridges of length 380 and 120 Meter & Construction of two tunnels of length 499 & 320 Meter by using NATM technology, Total tunnel Length: 819m	Govt. of Greece	Project Manager	AKTOR	700	01-04-1995	28-02-1998	Greece	499	Supervision (EPC)	2.90833333	
7	Construction of Main Athens Metro Line 2 From Sepolia to Syntagma in the country of Greece, Tunnel length: 7.4KM	Minister of Transport and Infrastructures	Project Manager	Attko Metro	1,625.00	01-03-1998	30-04-2000	Greece	7400	Supervision (EPC)	2.16388889	
8	Preparation of Detailed design of Athens Metro Line 2 Extension from SYNTAGMA-DAFNI Underground section in the country of Greece; Tunnel Length: 5 Km	Minister of Transport and Infrastructures	Team Leader cum Senior Tunnel Expert	ATTIKO METRO S.A	1,560.00	01-05-2000	31-05-2001	Greece	5000	DPR	1.08333333	
9	Preparation of Detailed design of Athens Metro Line 3 (MONASTIRAKI-ETHNIKI ANFYNA Section) up to DOYKISSIS PLAKENTIAS Station in the country of Greece, Tunnel Length: 5.9 Km	Minister of Transport and Infrastructures	Team Leader cum Senior Tunnel Expert	Attko Metro	1,560.00	01-06-2001	30-09-2002	Greece	5900	DPR	1.33055556	
10	Construction of Ethniki Anfyra-Plakentia Metro Line Extension of Line 3 in the country of Greece; Tunnel Length: 5.9 Km	Minister of Transport and Infrastructures	Project Manager	Attko Metro	2,275.00	01-10-2002	28-02-2006	Greece	5900	Supervision (EPC)	3.40833333	
11	Preparation of Detailed design of Agios Dimitrios-Elliniko Metro Line Extension of Line 2 in the country of Greece; Tunnel Length: 5.5 Km	Minister of Transport and Infrastructures	Team Leader cum Senior Tunnel Expert	ATTIKO METRO S.A	2,600.00	01-03-2006	31-10-2007	Greece	5500	DPR	1.66666667	
12	Construction of Agios Dimitrios-Elliniko Metro Line Extension of Line 2 in the country of Greece; Tunnel Length: 5.5 Km	Minister of Transport and Infrastructures	Project Manager	ATTIKO METRO S.A	2,600.00	01-11-2007	30-09-2011	Greece	5500	Supervision (EPC)	3.91388889	
13	Construction of ATHENS Metro - Line 3 Metro Extension to Piraeus in the country of Greece, Tunnel Length: 7 Km by TBM	Minister of Transport and Infrastructures	Project Manager	M/S Attko Metro	2,950.00	01-10-2011	30-04-2015	Greece	7000	Supervision (EPC)	3.58055556	
14	Construction Supervision of Riyadh Metro, Line 6, Package-3, Tunnel Length: 20.4 Km by TBM; Viaduct Section: 16.5 Km and Construction of 1800 meter long tunnel on Line-2 by using NATM	Arriyadh Development Authority	Resident Engineer	Hill International	12,350.00	01-05-2015	30-11-2016	Saudi Arabia	20400	Supervision (EPC)	1.58055556	
15	Construction Supervision of the Cairo Underground Metro Line 3, Phase 4A in Egypt, Tunnel Length 3.7 Km by TBM	National Authority for Tunnels (Egyptian state)	Resident Engineer	SYSTRA	1,500.00	01-12-2016	31-01-2018	Egypt	3700	Supervision (EPC)	1.16666667	



Resident cum Tunnel Excavation Expert												
LALIT KUMAR VERMA												
Sno	Work Name	Client	Designation	Employer	Project Cost (₹)	Start Date	Completion Date	Country	Maximum Individual Length of Tunnel (m)	Nature of assignment	No. of years	Remarks
1	Construction of 600MW Upper Indravati Hydro Power Project in Odisha, Including construction 4.32 Km long Tunnel by using NATM technology;	Odisha Hydro Power Corporation Ltd	Assistant Engineer	Odisha Hydro Power Corporation Ltd	2,100.00	01-02-1994	31-08-1996	India	4320	Supervision (EPC)	2.58333333	
2	Construction of 1200 MW Nathpa Jhakri Hydro Power Project, Including construction of 301 meter deep office type surge shaft and 12 Km long Tunnel by using NATM technology in Himachal Pradesh	Nathpa Jhakri	Senior Tunnel Expert	NATHPA JHAKRI	1,300.00	01-09-1996	31-08-1999	India	12000	Supervision (EPC)	3	
3	Detailed design for Construction of 1020 MW Tala Hydroelectric project in the country of Bhutan, Project includes of 22.64 Km Long Tunnel by using NATM technology	Tala Hydroelectric Project Authority	Resident Engineer	Tala Hydroelectric Project Authority	3,900.00	01-09-1999	31-10-2000	Bhutan	22640	DPR	1.16666667	
4	Construction of 1020 MW Tala hydroelectric project in the country of Bhutan, Project includes construction of 22.64 Km Long Tunnel by using NATM technology	Tala Hydroelectric Project Authority	Resident Engineer	Tala Hydroelectric Project Authority	3,900.00	01-11-2000	30-04-2002	Bhutan	22640	Supervision (EPC)	1.49722222	
5	Detailed design of Tunnel between Serangoon to Loring Chuan station for Contract package C 852 for Singapore MRT, Tunnel Length: 1970 Meter	Land Transport Authority	Resident Engineer	WOH HUP 4C SHANGHAI TUNNELLING and ALPINE MEYRAIDER JV, Singapore	800	01-05-2002	30-06-2003	Singapore	1970	DPR	1.16388889	
6	Construction of Tunnel between Serangoon to Loring Chuan station for Contract package C 852 for Singapore MRT, Tunnel Length: 1970 Meter	Land Transport Authority, Singapore	Resident Engineer	WOH HUP 4C SHANGHAI TUNNELLING and ALPINE MEYRAIDER JV, Singapore	800	01-07-2003	30-09-2005	Singapore	1970	Supervision (EPC)	2.24722222	
7	Construction supervision of MRT Circle Line Stage 5, at Singapore, Project included construction of 9 km long tunnel using TBM Herrenknecht EPJIM	Land Transport Authority	Resident Engineer	Worley Parsons Pre Ltd, Singapore	1,400.00	01-10-2005	31-12-2008	Singapore	9000	Supervision (EPC)	3.25	
8	Detailed design for Cut and cover Tunnel for Marina Bay front Downtown Line MRT Project in Singapore, Tunnel Length: 5 Km	Land Transport Authority	Resident Engineer	Land Transport Authority	1,200.00	01-01-2009	28-02-2010	Singapore	5000	DPR	1.15833333	
9	Construction of Cut and cover Tunnel for Marina Bay front Downtown Line MRT Project in Singapore, Tunnel Length: 5 Km	Land Transport Authority	Resident Engineer	Land Transport Authority	1,200.00	01-03-2010	31-05-2013	Singapore	5000	Supervision (EPC)	3.25	
10	Construction of fully underground Downtown Line, Stage-3 Metro Line Project (Contract 937) and River valley station. Project includes construction of underground tunnel of length 2.4 Km using TBM	Land Transport Authority, Singapore	Resident Engineer	GS Engineering and Construction	1,352.00	01-06-2013	31-07-2014	Singapore	2400	Supervision (EPC)	1.16666667	
11	Construction of Jurong Island cable tunnel Project in Singapore, Project included construction of 15 Km long underground Metro Tunnel using TBM	Govt. of Singapore	Resident Engineer	Singapore Power Grid	1,430.00	01-08-2014	30-06-2017	Singapore	15000	Supervision (EPC)	2.91888889	
12	Preparation of Feasibility study & Detailed design of Upper Thomson-East Coast Line Metro/MRT in Singapore Project consists of Construction of Underground Tunnel of 4.9 Km using TBM	Land Transport Authority, Singapore	Resident Engineer	Kohin Kahatsu Kogyo Co. Ltd	1,625.00	01-07-2017	31-03-2019	Singapore	4900	DPR	1.58333333	



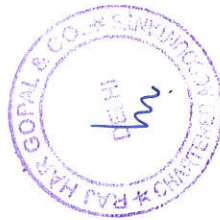


TUNNEL DESIGN ENGINEER												
JAVIER OCHOA												
Sno	Work Name	Client	Designation	Employer	Project Cost (Cr)	Start Date	Completion Date	Country	Maximum Individual Length of	Nature of assignment	No. of years	Remarks
1	Preparation of Detailed Project Report of Pamplona – Behobia motorway including detailed design of Viate tunnel. Length: 2800 m. Section: 88 m ² . Construction method: NATM in the Country of Spain	Ministry of Public Works	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	140	01-04-1993	31-07-1996	Spain	2800	DPR	3.33333333	
2	Preparation of Detailed Design/DPR of the N-340 Autovía del Mediterráneo Motorway Cadiz – Gibraltar – Barcelona. Section: Almufear (La Herradura) Almuñécar (Taramel) including 3 tunnels with 2 tubes per tunnel (2030 m, 278 m and 220 meters) in the Country of Spain	Ministry of Public Works	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	250	01-08-1996	31-07-1997	Spain	2030	DPR	1	
3	Project Preparation of the Vitoria Gasteiz – Elkar motorway section between Alabain and Eibar in the Country of Spain. Project Length: 10 Km (2 tunnels: 2 tubes with a length of 3.177 km each, 2 tubes with a length of 0.42 km each. Method of excavation: NATM.)	Gipuzkoa Government	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	800	01-08-1997	30-11-1998	Spain	3377	DPR	1.33055556	
4	Feasibility study, DPR and Detailed design of the rail integration in the municipality of San Feliu de Llobregat including design of 2.5 Km long tunnel in the Country of Spain	Ministry of Public Works	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	200	01-12-1998	31-05-2000	Spain	2500	DPR	1.5	
5	Construction Supervision of Section 3 of Underground Metrocar Madrid Metro having Single Tunnel length of 4.428 Km in the Country of Spain	Madrid Infrastructure Manager	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	497	01-06-2000	30-06-2001	Spain	4428	Supervision (EPC)	1.08055556	
6	Project Preparation & Detailed Design of Madrid Railway Network New Rail link between Atocha Station and Chamartin Station and design of two tunnels of length 4.870 Km & 4.562 Km: Atocha- Nuevos Ministerios in the Country of Spain	Ministry of Public Works	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	680	01-07-2001	31-07-2002	Spain	4870	DPR	1.08333333	
7	Preparation of Detailed Design/DPR of 4.82 Km long tunnel on Line 8 of Madrid Metro. Barajas – New terminus in the Country of Spain	Madrid Infrastructure Manager	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	300	01-08-2002	31-01-2004	Spain	4820	DPR	1.5	
8	Preparation of Detailed Design/DPR for the Extension of Line 7 of Madrid Metro to Goslada and San Fernando having tunnel of length 8.1 Km in the Country of Spain	Madrid Infrastructure Manager	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	790	01-02-2004	30-04-2005	Spain	8100	DPR	1.24722222	
9	Preparation of Detailed Design/DPR for the Construction of Vitoria-Bilbao-San Sebastián High Speed Line. Section: Lemoa – Galdakao including design of one tunnel of length 1827 meter with NATM technology in the Country of Spain. Design of an electrified double track high-speed rail section with a length of 5.42 km. The project includes: • 3 viaducts L=380 m; L= 458 m; L=231.5 m • 1 bridge, 1 overpass and 2 underpasses • 1 tunnel L=1.827 m, cross sectional area 85 m ² . NATM	ADIF (Spanish Railway Manager; Public Entity)	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	400	01-05-2005	31-05-2006	Spain	1827	DPR	1.08333333	
10	Preparation of Detailed Design/DPR for the Construction of Vitoria-Bilbao-San Sebastián High Speed Railway Line. Section: Zuzurdi – Urriola including design of two tunnels of length 4.683 Meter & 1928 meter in the Country of Spain. • Two (2) tunnels: – Tunnel of Aduna: Length: 4.683 m. Free cross-section: 85 m ² . – Tunnel of Andain: Length: 1.928 m. Free-cross section: 90 m ²	ADIF (Spanish Railway Manager; Public Entity)	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	900	01-06-2006	31-07-2007	Spain	4683	DPR	1.16666667	
11	Preparation of Detailed Design/DPR of Seville Metro Line 2. Section: Torretreiana – Torreblanca including design of 7.90 Km long tunnel in the Country of Spain	Andalucía Government	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	6,700.00	01-08-2007	31-10-2008	Spain	7900	DPR	1.25	
12	Project Management and construction supervision of the New Rail Transport Line between Mostoles and Navacerrada including construction of 6,381 Km long tunnel in the Country of Spain,	Concessionaire company	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	523	01-11-2008	30-11-2009	Spain	6381	Supervision (EPC)	1.08055556	
13	Detailed Design of the 17.3 Km long tunnel for Costa del Sol Railway Corridor. Section: San Pedro de Alc�nara – Estepona in the Country of Spain	Andalucía Government	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	10,833.00	01-12-2009	31-12-2011	Spain	17300	DPR	2.08333333	
14	Construction Supervision of Madrid – Galicia – Olmedo – Medina – Zamora – Puebla de Sanabria – Lub�n – Orense High Speed Railway Line. Section: including construction of Espillo Tunnel Length: 7.9 Km. Excavation section: 85 m ² . Excavation method: NATM. Effective cross section: 52 m ² , and Espillo Tunnel length: 7.9 km. Excavation section: 85 m ² . Excavation method: NATM. Effective cross section: 52 m ² . In the Country of Spain	ADIF (Spanish Railway Manager; Public Entity)	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	700	01-01-2012	30-04-2013	Spain	7900	Supervision (EPC)	1.33055556	
15	Detailed design & Feasibility Study for the Construction supervision of the Tunnels under the Suez Canal in the Country of Egypt. Project include design of 3.6 Km long (Immersed highway tunnel) and tunnel design of 3.25 Km long (Immersed highway tunnel). All design are done by innovative design method	National Authority for the Tunnels for the Egyptian Ministry of Transport	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	800	01-05-2013	31-05-2014	Egypt	3600	DPR	1.08333333	
16	Preparation of Detailed Project Report of Metro Line 1 of Bogotas Integrated Public Transport System in the Country of Colombia; Project Length: 27 Km long continuous tunnel	IDU (Urban Development Authority – Public Entity)	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	6,800.00	01-07-2014	31-07-2015	Colombia	27000	DPR	1.08333333	
17	Supervision of the Construction of the Extension of Line 1 of Argel Metro of Section 1 (from Harraich to Airport including construction of 9.720 Km long tunnel in the Country of Algeria)	Entreprise du m�tro d'Argel	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	422	01-08-2015	31-08-2016	Algeria	9720	Supervision (EPC)	1.08333333	
18	Detailed Design of Bucaramanga – Barrancabermeja – Yondo Road of Section 2 in the Country of Colombia, Tunnel features: – La Paz tunnel: Length: 3166 m. Area: 77.5 m ² . Method of excavation: NATM – La Sorda tunnel: Length: 2196 m. Area: 77.5 m ² . Method of excavation: NATM	Ferrovial	Tunnel Design Engineer	TPF Getinsa Euroestudios S.L	600	01-09-2016	31-10-2017	Colombia	3166	DPR	1.16666667	

19	Detailed Design of Bucaramanga AC Barrancabermeja AC Yondo Road of Section 2 in the Country of Colombia. Tunnel of excavation: NATM - La Sorda tunnel: Length: 2196 m. Area: 77.5 m ² . Method of excavation: NATM	Ferrovial	Tunnel Design Engineer	TPF Getina Eurostudios SL	600	01-11-2017	31-01-2019	Colombia	3166	DPR	1.25	
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TUNNEL SAFETY EXPERT										
SHAMSA ALI										
Sno	Work Name	Client	Designation	Employer	Project Cost (Qr)	Start Date	Completion Date	Country	Maximum Individual Tunnel Length (m)	Nature of assignment
1	Construction of 1000 MW Tehri Hydroelectric Project in the state of Uttarakhand, including construction of three diversion tunnels, Tunnel Length: 500, 1200 and 5200 meter	Tehri Hydro Development Corporation	Tunnel Safety Expert/Tunnel Safety Engineer	Karam Chand Thapar & Bros (CS) Ltd.	5,200.00	01-06-1998	30-04-2000	India	5200	Supervision (EPC)
2	Construction of 280 MW Dhauliganga Hydroelectric Project including construction of 4.3 km long Head Race Tunnel, Dharchula, Uttarakhand	National Hydroelectric Power Corporation (NHPC)	Tunnel Safety Expert/Tunnel Safety Engineer	Samsung Corporation (E&C Group)	2,000.00	01-05-2000	30-06-2001	India	4300	Supervision (EPC)
3	Preparation of Detailed design & Construction of 1516 meter long Tunnel between Al Qudus-Deira Road and Airport road-Nad Al Hamar Intersections in Dubai	Ministry of Transport and Communications	Tunnel Safety Expert/Tunnel Safety Engineer	Consolidated Contractors Company, UAE	1,100.00	01-07-2001	31-01-2003	United Arab Emirates	1516	DPR
4	Preparation of Detailed design of 1500 meter long Wadi Uq Tunnel on Ruway-Nizwa road a part of Sharqiyah Expressway project in Muscat, Oman;	Ministry of Transport and Communications	Tunnel Safety Expert/Tunnel Safety Engineer	Al Hassan Engineering & Contracting Company	1,100.00	01-02-2003	31-12-2005	Oman	1500	DPR
5	Construction Management / Supervision of the 2.5 Km long North/South Extensions to Bar Abu Alaboud Road Project. In Qatar; Underpass: 360 Meter, Tunnel Length: 740 meter	Govt. of Qatar	Tunnel Safety Expert/Tunnel Safety Engineer	Midmac Contracting Company Doha	1,352.00	01-01-2006	31-03-2008	Qatar	740	Supervision (EPC)
6	Construction of Sheikh Zayed Road Tunnel Project at Abu Dhabi, UAE, Tunnel Length: 2.4 Km	Govt of UAE	Tunnel Safety Expert/Tunnel Safety Engineer	China State Construction Engineering Corp.	1,430.00	01-04-2008	31-12-2011	United Arab Emirates	2400	Supervision (EPC)
7	Project Management consultancy for construction of Green Line Metro from Al Riffa to Al Mansourain Doha, QATAR, Tunnel Length: 16.2 Km	Qatar Railways Company	Tunnel Safety Expert/Tunnel Safety Engineer	PARSONS INTERNATIONAL LTD., DOHA, QATAR	7,800.00	01-01-2012	31-03-2014	Qatar	16200	Supervision (EPC)
8	Project Management consultancy for construction of Green Line Metro from Mheireb (Central Station) through to Education City; Tunnel Length: 6.2 Km	Qatar Railways Company	Tunnel Safety Expert/Tunnel Safety Engineer	PARSONS INTERNATIONAL LTD., DOHA, QATAR	4,550.00	01-04-2014	31-03-2016	Qatar	6200	Supervision (EPC)
9	Project Management consultancy for construction of 13 Km long Red Line North Underground Doha Metro Line, Doha Qatar, Tunnel Length: 11.6 KM	Qatar Railways Company	Tunnel Safety Expert/Tunnel Safety Engineer	ASTAD PROJECT MANAGEMENT, DOHA, QATAR	6,370.00	01-04-2016	31-01-2019	Qatar	11600	Supervision (EPC)



SR. GEOLOGIST										Sarvesh Mishra			
S. No	Work Name	Client	Designation	Employer	Project Cost (Cr)	Start Date	Completion Date	Country	Maximum Individual Length of Tunnel (m)	Nature of assignment	No. of years	Remarks	
1	Salal Hydropower project (66115MW) at Reasi District in the state of Jammu and Kashmir, Himalayan Region, Tunnel Length: 2500m	JKSPDC	Senior Geologist	National Hydroelectric Power Corporation	0	01-08-1988	31-05-1990	India	2500	Supervision(E PC)	1.83333333		
2	Sewa-II Hydroelectric Project (3x40 MW) at Kathua district in the state of Jammu and Kashmir, Himalayan Region, Tunnel Length: 10070 Km	JKSPDC	Senior Geologist	National Hydroelectric Power Corporation	0	01-06-1990	31-05-1991	India	10070	DPR	1		
3	Sawalkote Hydroelectric Project (1856 MW) in the state of Jammu and Kashmir, Tunnel Length: 1080m+650m+2300m, Client: JKSPDC	JKSPDC	Senior Geologist	National Hydroelectric Power Corporation	0	01-06-1991	31-05-1992	India	2300	DPR	1		
4	Uti-I Hydroelectric Project (4x120 MW) at Baramulla district in the state of Jammu and Kashmir, Himalayan Region, Tunnel Length: 10.65 Km.	JKSPDC	Senior Geologist	National Hydroelectric Power Corporation	0	01-07-1992	28-02-1997	India	10650	Supervision(E PC)	4.65833333		
5	Bursar Hydroelectric Project (800 MW) at Kishtwar district in the state of Jammu and Kashmir, Tunnel length: 6.75 Km	JKSPDC	Senior Geologist	National Hydroelectric Power Corporation	0	01-03-1997	30-04-1998	India	6750	DPR	1.16388889		
6	Sewa-I Hydroelectric Project (3x40 MW) at Kathua District in the state of Jammu and Kashmir, Himalayan Region, Tunnel length: 10.97 Km. (Using NATM Technology)	JKSPDC	Senior Geologist	National Hydroelectric Power Corporation	0	01-05-1998	30-06-2000	India	10970	Supervision(E PC)	2.16388889		
7	Parbat-II Hydroelectric Project (520 MW) in the state of Himachal Pradesh, Himalayan Region, Tunnel Length: 31.52 Km. (Using NATM Technology)	HPSEB	Senior Geologist	National Hydroelectric Power Corporation Address	0	01-07-2000	31-12-2002	India	31520	Supervision(E PC)	2.5		
8	Siang Hydroelectric Project (2700 MW) in the state of Arunachal Pradesh, Tunnel Length: 21 Km	Govt. of Arunachal Pradesh	Senior Geologist	National Hydroelectric Power Corporation	0	01-01-2003	31-01-2004	India	21000	DPR	1.08333333		
9	Dibang valley hydroelectric (2880MW) in the state of Arunachal Pradesh, Tunnel Length: 10.72 Km	Govt. of Arunachal Pradesh	Senior Geologist	National Hydroelectric Power Corporation	0	01-02-2004	31-03-2005	India	10720	DPR	1.16666667		
10	Dulhasi Hydroelectric Project (3x130 MW) at Kishtwar district in the state of Jammu and Kashmir, Himalayan Region, NATM Tunnel Length: 10.57 Km	JKSPDC	Senior Geologist	National Hydroelectric Power Corporation	0	01-04-2005	31-08-2006	India	10572	Supervision(E PC)	1.41666667		
11	Sewa-II Hydroelectric Project (3x40 MW) at Kathua district in the state of Jammu and Kashmir, Himalayan Region, Tunnel Length: 10.07 Km. (Using NATM Technology)	JKSPDC	Senior Geologist	National Hydroelectric Power Corporation	0	01-09-2006	31-12-2008	India	10070	Supervision(E PC)	2.33333333		
12	Chirak Hydroelectric Project (4x11 MW) at Kargil district in the state of Jammu and Kashmir, Himalayan Region, Tunnel Length: 4.76 Km. (Using NATM Technology)	JKSPDC	Senior Geologist	National Hydroelectric Power Corporation	900	01-01-2009	31-12-2010	India	4760	Supervision(E PC)	2		
13	Tawang-I & II Hydroelectric Project (800MW and 520MW) in the state of Arunachal Pradesh, Himalayan Region, Tunnel Length: 13.98 Km and 15.98 Km. Using NATM Technology	Govt. of Arunachal Pradesh	Senior Geologist	National Hydroelectric Power Corporation	7,879.00	01-01-2011	31-07-2012	India	15980	Supervision(E PC)	1.58333333		
14	Teesta Hydroelectric Project (510 MW) in the state of Sikkim, Himalayan Region, Tunnel length 6581m and 6476m Using NATM Technology	National Hydroelectric Power Corporation	Senior Geologist	National Hydroelectric Power Corporation	2,200.00	01-08-2012	31-01-2015	India	6581	Supervision(E PC)	2.5		



Tunnel ventilation cum E&M Expert										
RAJESH KUMAR SHARMA										
Sno	Work Name	Client	Designation	Employer	Project Cost (₹)	Start Date	Completion Date	Country	Maximum installed length of tunnel (m)	Nature of assignment
1	Construction of 2 Nos Thermal Plant at Surajpur near Chandigarh and Panipat in the State of Haryana	Haryana State Electricity Board	Engineer	Haryana State Electricity Board	0	01-07-1977	31-10-1979	India	0	Execution
2	Design and Construction for 1500 MW Nathpa Jhakri Hydroelectric project, Kinnaur and Shimla Districts, H.P. (1500 MW), Client: SVN, Cost: Rs. 8187 Cr, Tunnel Length: 27.4 Km	HPSEB Ltd	Assistant Executive Engineer	HPSEB Ltd	0	01-02-1983	31-10-1991	India	27400	Execution
3	60MW Giri Hydroelectric Power (2X30MW) at Girmagar on Nahau Panonta Highway of Giri river in the state of Himachal Pradesh, Tunnel Length: 10 Km	HPSEB Ltd	Executive Engineer	HPSEB Ltd	2,175.00	01-11-1991	31-05-1999	India	10000	Supervision (E PC)
4	60MW Giri Hydroelectric Power (2X30MW) at Girmagar on Nahau Panonta Highway of Giri river in the state of Himachal Pradesh, Tunnel Length: 10 Km	HPSEB Ltd	Superintending Engineer / Executive Engineer	HPSEB Ltd	2,175.00	01-06-1999	30-06-2001	India	10000	Supervision (E PC)
5	Preparation of Design of Lohri Hydro Electric Project (i.e. Lohri HEP Stage-I - 210 MW, Lohri HEP Stage-II - 163MW) is located on river Satluj in Shimla / Kullu / Mandi districts of Himachal Pradesh; Tunnel length: 38 Km	HPSEB Ltd	Superintending Engineer	HPSEB Ltd	0	01-07-2001	31-07-2002	India	38000	DPR
6	: Preparation of Feasibility Study / Detailed Project Report of 600MW Khilongchhu HEP on the river Khilongchhu in the Country of Bhutan, Tunnel Length: 15.8 Km	Govt. of Bhutan	Superintending Engineer	HPSEB Ltd	0	01-08-2002	31-08-2003	Bhutan	15800	DPR
7	Preparation of Feasibility Study / Detailed Project Report of 900MW Annapurna Hydroelectric Project in the state of Uttarakhand, the country of Nepal, Tunnel Length: 11.74 Km	Govt. of Nepal	Superintending Engineer	HPSEB Ltd	0	01-09-2003	31-08-2004	Nepal	11740	DPR
8	Preparation of Feasibility Study / Detailed Project Report of 40MW Jahol Sankar HEP Uttarakhand district of Uttarakhand, Tunnel length: 6.62 Km	Govt. of Uttarakhand	Superintending Engineer	HPSEB Ltd	0	01-09-2004	31-08-2005	India	6620	DPR
9	Preparation of Feasibility Study / Detailed Project Report of 60 MW Nahwar Mori Hydro Electric Project on river in Uttarakhand districts of Uttarakhand state in North India, Tunnel Length: 4.3 Km	Govt. of Uttarakhand	Superintending Engineer	HPSEB Ltd	0	01-09-2005	31-08-2006	India	4300	DPR
10	Rampur Hydro Electric Project (412 MW) on River Satluj in Shimla and Kullu district in the state of Himachal Pradesh, Client: SVN Limited, Cost: Rs. 4233 Cr, Tunnel Length: 15 Km	SVN	Superintending Engineer	HPSEB Ltd	4,233.00	01-09-2006	30-09-2007	India	15000	Supervision (E PC)
11	Nathpa Jhakri Hydroelectric project (1500MW) located river Satluj in Kinnaur and Shimla Districts in the state of Himachal Pradesh, Client: SVN, Cost: Rs. 8187 Cr, Tunnel Length: 27.4 Km	SVN	Superintending Engineer	HPSEB Ltd	8,187.00	01-10-2007	31-10-2008	India	27400	Supervision (E PC)
12	Shangong Hydroelectric Project (450 MW) in the state of Himachal Pradesh, Client: HPCL, Tunnel Length: 8.2 Km	HPSEB Ltd	Superintending Engineer	HPSEB Ltd	2,229.00	01-11-2008	30-11-2009	India	8200	Supervision (E PC)
13	Kashang Hydroelectric Project (195 MW) in the state of Himachal Pradesh, Client: HPCL, Tunnel Length: 2 Km	HPSEB Ltd	Superintending Engineer	HPSEB Ltd	1,870.00	01-12-2009	31-12-2010	India	2000	Supervision (E PC)
14	Saini Hydroelectric Project (100 MW) in the state of Himachal Pradesh, Client: HPCL, Tunnel Length: 6.36 Km	HPSEB Ltd.	Superintending Engineer	HPSEB Ltd	0	01-01-2011	31-01-2012	India	6360	Supervision (E PC)
15	Sawra Kuddu Hydroelectric Project (111 MW) in the state of Himachal Pradesh, Client: HPCL, Tunnel Length: 11.36 Km	HPSEB Ltd.	Chief Engineer	HPSEB Ltd	0	01-02-2012	31-03-2014	India	11360	Supervision (E PC)
16	Budhial Hydroelectric Project (2 x 35MW) located at district Chamba in the State of Himachal Pradesh, Tunnel Length: 6 Km.	HPSEB	Tunnel Ventilation Expert	M/S Greenko Energy Pvt. Ltd.	419	01-04-2014	31-01-2019	India	6000	Supervision (E PC)



CONTRACT SPECIALIST												
India Hema Chandrudu												
Sr	Work Name	Client	Designation	Employer	Project Cost (₹)	Start Date	Completion Date	Country	Maximum individual length of contract (m)	Nature of assignment	No. of years	Remarks
1	Construction of H.V.D.C. 2 x 500 MW Sub-station at Chandrapur in the state of Maharashtra	Power Grid Corporation of India	Contract Specialist	IVR Constructions Pvt. Ltd., Hyderabad	23	01-09-1992	30-11-1993	India	0	Supervision(E PC)	1.2472222	
2	Construction of New Arriva Hall at Bangalore Airport in the state of Karnataka	Airports Authority of India	Contract Specialist	IVR Constructions Pvt. Ltd., Hyderabad	6.03	01-12-1993	30-11-1995	India	0	Supervision(E PC)	1.9972222	
3	Construction of Railway Siding and Bridges for Mangalore Refinery Pvt. Ltd. under technical supervision of Railway India Technical Engineering Services (ITES) and Construction of Major Railway Deck Corridor Bridges with Heavy Pile Foundations, Major Embankments, Pipe Culverts and Service Roads in the state of Karnataka	Hindustan Petroleum Corporation Limited	Contract Specialist	IVR Constructions Pvt. Ltd.	5.95	04-12-1995	30-09-1998	India	0	Supervision(E PC)	2.8222222	
4	Construction of KFA - OA Pipe Line Corridor Bridge (Pre stressed Concrete Girder Bridge) of length 600m near Qatif Abasqa, Al-Khobar in Saudi Arabia	Ministry of Communication	Contract Specialist	Al-Owaidah Company for Contracting	71.8	05-10-1998	30-07-1999	Saudi Arabia	0	Supervision(E PC)	0.8194444	
5	Maintenance, Improvement and Upgrading of Roads, Bridges and Culverts (Phase I), Group-5 in and around Dubai, Saudi Arabia.	Ministry of Communication	Contract Specialist	Al-Owaidah Company for Contracting	92.03	02-08-1999	29-12-2000	Saudi Arabia	0	Supervision(E PC)	1.4083333	
6	Renovation / Improvement of Dhahran Airport - Rehabilitation of Military runway 10th-34th and Civil runway 16th-34th in Saudi Arabia.	Ministry of Defense	Contract Specialist	Al-Owaidah Company for Contracting	238.57	04-12-2000	16-03-2001	Saudi Arabia	0	Supervision(E PC)	0.2833333	
7	Upgradation and Rehabilitation of Oman Highways of length 71 km 4 lane road in Oman, implemented under FIDIC Conditions of Contract.	Directorate General of Roads, Sultanate of Oman	Contract Specialist	Consolidated Contractors Company LLC	201.57	19-03-2001	30-08-2002	Oman	0	Supervision(E PC)	1.4472222	
8	Consultancy Services for Construction Supervision of Western Transport Corridor Tumkur - Haveri NH-4, Supervision Contract 2 Project office, Chitradurga - Haveri Section Km 207 to Km 340 in the State of Karnataka executed under FIDIC Conditions of Contract (ADB funded)	National Highways Authority of India	Contract Specialist	Intercontinental Consultants and Technocrats Private Limited	675	02-12-2002	12-08-2005	India	0	Supervision(E PC)	2.6944444	
9	Consultancy Services for Construction Supervision of Western Transport Corridor Tumkur - Haveri NH-4, Supervision Contract 2 Project office, Chitradurga - Haveri Section Km 207 to Km 340 in the State of Karnataka executed under FIDIC Conditions of Contract (ADB funded)	National Highways Authority of India	Contract Specialist	Intercontinental Consultants and Technocrats Private Limited	675	02-12-2002	12-08-2005	India	0	Supervision(E PC)	2.6944444	
10	Construction of Wall Raffles Five Star Hotel Cum Shopping Mall	Wall Raffles	Contract Specialist	Khansaleb Civil Engineering (LLC)	11	17-08-2005	30-06-2007	United Arab Emirates	0	Execution	1.8694444	
11	Design, Construction, Development, Finance, Operation and Maintenance of NH-7 from Km. 278.00 (Kadthal) to Km. 308.00 (Arnur) in the state of Andhra Pradesh under North-South Corridor (NHDP Phase II) on Build, Operate and Transfer (Annuity) Basis.	National Highways Authority of India	Contract Specialist	Hindastan Construction Company Limited	330	21-10-2007	01-01-2010	India	0	Supervision(P PP)	2.1944444	
12	Design, Construction, Development, Finance, Operation and Maintenance of 6-lane elevated Highway near Badapur, Mathura on NH-2 in the state of Uttar Pradesh	National Highways Authority of India	Contract Specialist	Hindastan Construction Company Limited	440	04-01-2010	31-05-2010	India	0	Other works	0.4083333	



13	Design, Construction, Development, Finance, Operation and Maintenance of 6-lane NH-2 from Km. 785.00 to Km. 978.40 of length 193.40 km in the states of Uttar Pradesh and Bihar under North-South Corridor (NHDP Phase-V) on BOT basis	National Highways Authority of India	Senior Contract Specialist	Isolux Corsan India Engineering & Construction Pvt. Ltd	2,000.00	01-06-2010	29-03-2013	India	0	Supervision(P PP)	2.82777778
14	Design, Build, Finance, Operate and Transfer 6-laning of existing road from Km. 364.125 to Km. 58.245 of length 93.56 km on the Kishangarh – Ajmer – Bawar Section of NH-8 in the state of Rajasthan under NHDP Phase – II on DBFOT basis	National Highways Authority of India	Contract Specialist	Isolux Corsan India Engineering & Construction Pvt. Ltd	550	01-06-2010	29-07-2011	India	0	Supervision(P PP)	1.16111111
15	Design, Build, Finance, Operate and Transfer of 4-laning of Gujarat / Maharashtra Border – Surat – Hazira port section of NH-6 of length 132.19 km in the state of Gujarat under NHDP Phase-III on DBFOT basis	National Highways Authority of India	Senior Contract Specialist	Isolux Corsan India Engineering & Construction Pvt. Ltd	1,200.00	04-07-2011	31-07-2012	India	0	Supervision(P PP)	1.075
16	Builda – Kioriya Road Development Project – upgrading in 51 km Gravel road to bitumen standard (Client: TAN Road) Tondar ; TMA Road	TAN Road	Senior Contract Specialist	DB Shapriya Co. Ltd	299.7	15-04-2013	30-06-2014	Tanzania	0	Supervision(E PC)	1.20833333
17	Mtwara Airport Project – on DBOT basis – Tanzania	Tanzania Airport Authority	Senior Contract Specialist	DB Shapriya Co. Ltd	59.94	15-04-2013	30-06-2014	Tanzania	0	Supervision(E PC)	1.20833333
18	Improvement of Mtwara Municipal Road Development (World Bank Fund Project)	Mtwara Municipality	Senior Contract Specialist	DB Shapriya Co. Ltd	47.95	15-04-2013	30-06-2014	Tanzania	0	Supervision(E PC)	1.20833333
19	Consultancy services for Construction Supervision of APRDC (AP Road Development Corporation, Hyderabad) Phase I for 5 packages funded by World Bank (Chitor-Putur Road, Package-CP01; Length: 63.80 km), Mydukur-Jammalamadugu Road, Package: RD-03 (Length: 20.0 km), Mydukur-Jammalamadugu Road, Package: RD-04 (Length: 21.0 km), Kandl-Shadnagar Road Package: RS-01 (Length: 65 km), Nigvali-Piddapalli Road Package: JP-06 (Length: 58.75 km)	AP Road Development Corporation	Senior Contract Specialist	URS Scott Wilson India Pvt. Ltd.	785.67	16-07-2014	31-05-2016	India	0	Supervision(E PC)	1.875
20	Consultancy Service for Authority's Engineer for Supervision of construction works for Rehabilitation and Upgradation of Katipudi to start of Kakinada bypass from Km. 0.000 to 27,500 of NH-214 (New NH-216) to four lane with paved shoulders & Kakinada bypass to two lanes with paved shoulder from km. 27,500 to Km. 42,000 in the state of Andhra Pradesh on EPC basis	MORTH	Senior Contract Specialist	Wadia Techno Engineering	510	01-06-2016	31-12-2018	India	0	Supervision(E PC)	2.58333333
21	Consultancy Service for Authority's Engineer for Supervision of Rehabilitation and Upgradation of NH-111 from km 163.400 to Km 215.800 (Shivnagar to Ambikapur Section) to Two lane with paved shoulder under NHDP-IV on EPC basis	MORTH	Senior Contract Specialist	Wadia Techno Engineering	223	01-06-2017	31-01-2019	India	0	Supervision(E PC)	1.66666667
22	Consultancy Service for Authority's Engineer for Supervision of Rehabilitation and Upgradation of Loasari to Machawaram Section from Km 347.250 to Km 847.550 of NH-214A (New NH-216) to Two lane with paved shoulder in the State of Andhra Pradesh under NHDP-IV on EPC Mode	MORTH	Senior Contract Specialist	Wadia Techno Engineering	288	01-06-2017	31-01-2019	India	0	Supervision(E PC)	1.66666667
23	Consultancy Service for Authority's Engineer for Supervision of Rehabilitation works for Rehabilitation and Upgradation of Machilipatnam to Rajampet Section from Km 847.550 to Km 1247.000 of NH-214A (New NH-216) to Two lane with paved shoulder in the State of Andhra Pradesh under NHDP-IV on EPC Mode and Repalle to Eppurupalem Section from Km. 1249.927 to Km 1957.000 of NH-214A (New NH-216) to Two lane with paved shoulder in the State of Andhra Pradesh under NHDP-IV on EPC Mode	MORTH	Senior Contract Specialist	Wadia Techno Engineering	618	01-01-2018	31-01-2019	India	0	Supervision(E PC)	1.08333333



Instrumentation & Control (SCADA) Expert										
Anurag Swain										
Sno	Work Name	Client	Designation	Employer	Project Cost (₹)	Start Date	Completion Date	Country	Maximum Individual Length of Tunnel (m)	Nature of assignment
1	Installation of surveillance security systems and Construction of 900 MW Solar Power Project at Srisaiguda, Tunnel Length: 8 Km.	AP Power Generation Corporation.	Electrical Engineer	Patel Engineering Ltd.	350	01-09-1992	30-04-1995	India	8000	Execution
2	Installation of surveillance security systems and Construction of 290 MW Dui Hasti Hydro Electric Power Project in the state of Jammu and Kashmir, Tunnel Length: 10 Km.	NHPC Ltd	Instrumentation and Control (SCADA) Expert	Jaiprakash Associates Ltd	600	01-05-1995	31-12-1998	India	10000	Execution
3	Installation of surveillance security systems and Construction of 290 MW Dui Hasti Hydro Electric Power Project in the state of Jammu and Kashmir, Tunnel Length: 10 Km.	NHPC Ltd	Instrumentation and Control (SCADA) Expert	Jaiprakash Associates Ltd	600	01-05-1995	31-12-1998	India	10000	Supervision (E PC)
4	Installation of surveillance security systems and Construction of 3x100 MW Baspal Hydro Electric Power Project in the state of Himachal Pradesh, The Project has 7.95 Km long HRT	NHPC Ltd	Instrumentation and Control (SCADA) Expert	Jaiprakash Associates Ltd	800	01-01-1999	31-12-2002	India	7950	Execution
5	Erection and commissioning of Devapur Cement Plant Unit -1 (New 2200 TPD CGU at Jalgaon) at Jalgaon in the state of Maharashtra, including installation of surveillance system and installation of HDR Pyrometric Camera for internal security	Orient Cement Ltd	Instrumentation and Control (SCADA) Expert	Orient Cement Ltd	320	01-01-2003	31-05-2005	India	0	Other works
6	Setting of TPD Grinding unit/plant of Ambuja Cement at Farraka in the state of West Bengal	Ambuja Cement Ltd	Instrumentation and Control (SCADA) Expert	Ambuja Cement Ltd	200	01-06-2005	30-04-2007	India	0	Other works
7	Project Management, Erection & Commissioning, of Integrated Steels & Power Plant at Jharsuguda 350 TPD DRI & 8 MW-WHRB CPP, Siemens-TDPS STG in the state of Orissa	NHPC Ltd.	Instrumentation and Control (SCADA) Expert	Jain Energy Ltd	300	01-05-2007	31-05-2010	India	0	Other works
8	Fabrication/renovation of 87 no's mechanical Bypass Gates at River "Sone", Bihar under Irrigation Mechanical Division, Delhi in the state of Bihar	WRD, Irrigation Division, Bihar	Instrumentation and Control (SCADA) Expert	Rula Group	120	01-06-2010	31-03-2013	India	0	Other works
9	Engineering Design & Project Management Consultancy for Installation & Commissioning for setting up of 12.5 MW WHRB Power Plant at MHPL, Melacheruvu, Hyderabad	Maha Cements	Instrumentation and Control (SCADA) Expert	My Home Power Consultancy Ltd	300	01-04-2013	31-12-2015	India	0	Execution
10	Project Management Consultancy for Installation and commissioning of 1.2 MW, 6.6 KV ON-Grid PV Solar Power Plant, SICPL, Bangampally in the state of Andhra Pradesh	Sree Jayajothi Cements Pvt. Ltd	Instrumentation and Control (SCADA) Expert	My Home Power Consultancy Ltd	140	01-01-2016	31-10-2017	India	0	Execution
11	Project Management Consultancy for Installation and commissioning of 1.2 MW, 6.6 KV ON-Grid PV Solar Power Plant, SICPL, Bangampally in the state of Andhra Pradesh	Sree Jayajothi Cements Pvt. Ltd	Instrumentation and Control (SCADA) Expert	My Home Power Consultancy Ltd	140	01-01-2016		India	0	Execution



Team Leader cum Senior Tunnel Expert

Apostolos Dimos

S.no	Work Name	Client	Designation	Employer	Project Cost (Cr)	Start Date	Completion Date	Country	Maximum Individual Length of Tunnel (m)	Nature of assignment	Number of years	Remarks
1	Construction of 5026-meter-long Cadix Tunnel connecting the Comarques of Cerdanya and Berguedà Highway at Catalonia in the country of Spain.	Govt. of Spain	Senior Tunnel Expert	Catalan group	150	01-09-1988	31-12-1992	Spain	5026	Supervision (EPC)	4.333333333	
2	Construction of PATHE Expressway (E-75-Trans European Road Network) Section of length 22 km including construction of 5 Tunnels of total length 7700 meter including construction of longest tunnel of length 2400 meter in the country of Greece.	Govt. of Greece	Senior Tunnel Expert	SALFO & Associates S.A.	500	01-01-1993	31-12-1994	Greece	2400	Supervision (EPC)	2	
3	Construction Supervision of 22 Km long Main Athens Metro Rail Project at Athens in the Country of Greece project include construction of longest twin tube tunnel of length 7200 meter.	ATTIKO METRO S.A.	Project Manager	ATTIKO METRO S.A.	600	01-01-1995	31-07-1999	Greece	7200	Supervision (EPC)	4.583333333	
4	Construction Supervision of Twin tube Highways Tunnel from Psakia to Griksa of length 2350 meter at West Greece in the Country of Greece.	Egnatia Odos S.A.	Resident Engineer	LAHMEYER INTERNATIONAL GMBH	200	01-08-1999	31-08-2001	Greece	2350	Supervision (EPC)	2.083333333	
5	Preparation of Detailed Design/DPR of 4350 meter-long Patamoras twin-bore railway tunnel of the New High Speed Railway Line from Athens to Thessaloniki, in the country of Greece.	Govt. of Greece	Team Leader	Omikron Kappa Consulting	400	01-09-2001	30-09-2002	Greece	4350	DPR	1.080555556	
6	Preparation of Detailed design/DPR of Extension of Athens Metro Line 2 to Hellinikon including Design of a 250m and 5200 meter long underground tunnel and Extension of Line 3 Urban Rail of Athens upto the new Athens International Airport including design of 4700 meter long tunnel with NATM technology in the Country of Greece.	ATTIKO METRO SA & NATIONAL RAILWAY INFRASTRUCTURE	Project Manager	ATTIKO METRO S.A.	1,200.00	01-10-2002	31-12-2004	Greece	5200	DPR	2.25	
7	Construction supervision of Extension of Athens Metro Line 2 to Hellinikon including construction of a 250m and 5200-meter-long underground tunnel and Extension of Line 3 Urban Rail of Athens upto the new Athens International Airport including construction of 4700 meter long tunnel with NATM technology in the Country of Greece.	ATTIKO METRO SA & NATIONAL RAILWAY INFRASTRUCTURE	Project Manager	ATTIKO METRO S.A.	1,200.00	01-01-2005	31-12-2007	Greece	5200	Supervision (EPC)	3	
8	Preparation of Detailed design/DPR of Athens Urban Rail, Phase II Extension of Line 3 including design of 4350 meter long tunnel with NATM technology in the Country of GREECE.	Attiko Metro SA - STASY SA	Project Manager	ATTIKO METRO S.A.	3,200.00	01-01-2008	31-08-2009	Greece	4350	DPR	1.666666667	
9	Construction of 6000 meter long T-2 Tunnel on Malakos-Kleidi Motorway (Aegean Motorway) in the country of Greece.	Athkinitodromos Algaia S.A.	Project Manager	AKTOR (Member of Elaktor Group)	400	01-09-2009	31-08-2011	Greece	6000	Supervision (EPC)	2	
10	Construction of 202 km long Elefina - Korinthos - Patras highway and construction of 16 tunnels. Including construction of longest highway tunnel, of length 4414 meter, which is located in the area of Panagopolis in the country of Greece.	OLYMPIA ODOS OPERATION S.A.	Project Manager	AKTOR (Member of Elaktor Group)	2,100.00	01-09-2011	31-08-2013	Greece	4414	Supervision (EPC)	2	
11	Construction supervision of Athens Urban Rail, Phase II Extension of Line 3 including construction of 4350 meter-long tunnel with NATM technology in the Country of GREECE.	Attiko Metro SA - STASY SA	Project Manager	ATTIKO METRO S.A.	3,200.00	01-09-2013	30-04-2016	Greece	4350	Supervision (EPC)	2.663888889	
12	Design review and Construction Supervision for construction of 389 KM long AWASH - WELDIA / HAR GEBEYA RAILWAY Line at Addis Ababa including construction of 7 Km long tunnel with NATM technology in the Country of ETHIOPIA.	ERC Ethiopian Railway Corporation	Project Manager	SYSTRA	15,000.00	01-05-2016	31-01-2019	Ethiopia	7000	Supervision (EPC)	2.75	



Resident Engineer cum Excavation Specialist												
Sindhu Mishra												
Sno	Work Name	Client	Designation	Employer	Project Cost (Cr)	Start Date	Completion Date	Country	Maximum Individual Length of tunnel (m)	Nature of assignment	No. of years	Remarks
1	Kolkata Metro Railway Project: Construction of 1.00 Km transport tunnel from Girish park to MG road section in the state of West Bengal	Kolkata Metro Rail Corporation	Assistant Engineer	Hindustan Construction Company Limited	200	01-12-1995	30-07-1997	India	1000	Execution	1.663888889	
2	Construction of Dul-hasti Hydroelectric Project (390 MW) in Kistwar in the state of J&K	National Hydro Electric Power Corporation (NHPC)	Sr. Tunnel Engineer	Jaiprakash Associates Limited	2,200.00	01-08-1997	30-11-1999	India	10586	Execution	2.330555556	
3	Construction of Baglihar Hydro Electric (900 MW) Project in Chanderkhot in the state of J&K.	J.K.S.P.D.C (Jammu and Kashmir)	Sr. Tunnel Engineer	Jaiprakash Associates Limited	9,000.00	01-12-1999	30-06-2009	India	2070	Execution	9.580555556	
4	Construction of Harangajo to Maibang section of NH-54 from Km 126.450 to Km 140.700 and Km 164.080 to Km 165.400 in the state of Assam, Package: AS-23, Project.	National Highways Authority of India	Sr. Tunnel Engineer	Hindustan Construction Company Limited	280	01-07-2009	12-06-2011	India	1600	Execution	1.947222222	
5	Independent Engineer services during Rehabilitation, Strengthening and Four Lanning of Chenani- Nashri Section of NH-1A from 89.00Km to 130.00Km (New Alignment) including 9Km long tunnel (2 Lane) with Parallel Escape Tunnel on BOT (Annuity) basis, on DBFO pattern in the state of Jammu and Kashmir.	National Highways Authority of India	Sr. Tunnel Engineer	Segmental Consulting and Infrastructure Advisory (P) Ltd.	3,200.00	13-06-2011	30-06-2015	India	9000	HAM	4.047222222	
6	Independent Engineer services of O&M of Four lane Jammu-Udhampur Section from Km 15 (Jammu Bypass) to Km 67 on BOT (Annuity) in Jammu & Kashmir under NHDP- Phase- II.	National Highways Authority of India	Sr. Tunnel Engineer	Segmental Consulting and Infrastructure Advisory (P) Ltd.	2,600.00	01-07-2015	30-04-2017	India	3000	O&M	1.830555556	
7	Consultancy services for performing the role of Engineer for Construction of 8.8 km long highway tunnel across Rohitang pass near Manali in Himachal Pradesh (Construction Contract accepted with FIDIC Conditions)	Border Roads Organisation	Sr. Tunnel Engineer	PEMS Engineering Consultants Pvt. Ltd.	4,000.00	26-06-2017	20-11-2017	India	8800	Supervision (EPC)	0.4	
8	Detailed Design Consultancy, 3D Monitoring and Construction Supervision of Tunnel T-14 (Between Km. 70+651 to Km.76+920) & T-15 (Between Km 77+019 to Km 86+848) and associated works in connection with Construction of Katra to Dharan section of Udhampur-Srinagar-Baramulla New BG Railway Project (Package: USBRL/61-91 DDC T-14 & T-15) Tunnel Length: 32 Km approx. (NATM Method in Himalayan Region)	IRCON International Limited	Sr. Tunnel Engineer	PEMS Engineering Consultants Pvt. Ltd.	2,857.50	21-11-2017	31-01-2019	India	9829	Supervision (EPC)	1.194444444	



Tunnel Design Engineer Nishith Gupta												
Sno	Work Name	Client	Designation	Employer	Project Cost (Cr)	Start Date	Completion Date	Country	Maximum Individual Length of tunnel (m)	Nature of assignment	No. of years	Remarks
1	TUAS Undersea Immersed Cable Tunnel Project Singapore.	Obayashi Corporation	Senior Engineer	Obayashi Corporation Singapore	1,020.00	01-04-1997	30-12-1998	Singapore	2200	DPR	1.74722222	Experience of Immersed Cable tunnel of length 2200 has been shown and according to the criterion we need road/rail/hydro/metro tunnels. Tunnel work rejected.
2	Detailed Design of N-E Line New Dhoby Ghaut Metro interchange Station and Commercial Building in Singapore (Design and construction support (planning and coordination) for a cross over box connecting the new Dhoby Ghaut MRT station to the Orchard Road crossing.)	Obayashi Corporation	Senior Engineer	Obayashi Corporation Singapore	660	01-01-1998	30-06-2002	Singapore	400	Supervision(EPC)	4.49722222	
3	Marina Line Advance Work (includes MRT Stations) (Singapore) (Design and construction support (planning and coordination) for a cross over box connecting the new Dhoby Ghaut MRT station to the Orchard Road crossing.)	Obayashi Corporation	Senior Engineer	Obayashi Corporation Singapore	660	01-01-2001	30-12-2001	Singapore	1300	Supervision(EPC)	0.99722222	
4	Senoko Power Cable Tunnel project Singapore (These are twin power transmission cable tunnels connecting Senoko Power Station to the Gumbas distribution grid in Singapore. The highlight of this project was a NATM tunnel constructed to salvage a TBM stuck in soft ground. Design development at tender stage of a proposed 2.8 Km long undersea bored cable tunnel connecting the Seraya Island power station to mainland Singapore. The project was shelved by authorities due to unforeseen soil conditions).	Obayashi McConnell Dowell JV	Senior Engineer	Obayashi Corporation Singapore	660	01-07-2002	30-05-2004	Singapore	2800	DPR	1.91388889	Experience of Immersed Cable tunnel of length 2200 has been shown and according to the criterion we need road/rail/hydro/metro tunnels. May be rejected in criteria where tunnels work required.
5	New Metro Rail City Project Perth WA (Perth Western Australia) (This station has been constructed beneath an existing heritage building in the heart of Perth City. The station design caters for earthquake loads with a return period of 2000 years.)	Leighton Kumagai JV	Team Leader	Maunsell (AECOM) Australia, Sydney	8,160.00	01-06-2004	30-12-2006	Australia	0	DPR	2.58055556	
6	M5 East (motorway) Vent Tunnel (Australia) (The \$795 Million M5 East Motorway is a major addition to Sydney's orbital road network, linking the M5 Motorway to Sydney Airport and onto the Eastern Distributor. The 10 kilometre motorway includes Australia's longest road tunnels - twin 3.8 kilometre, two lane tunnels running approximately ten metres apart.)	Road and Traffic Authority, Australia	Team Leader	Maunsell (AECOM) Australia, Sydney	4,770.00	01-01-2005	30-12-2005	Australia	3800	DPR	0.99722222	
7	Victoria Park Tunnel New Zealand. (New Zealand) (Seismic design of cut and cover road tunnel.)	Auckland Transport	Technical Officer	Maunsell (AECOM) Australia, Sydney	510	01-01-2006	30-12-2006	New Zealand	1000	DPR	0.99722222	
8	Detailed Design of City West Cable Tunnel in Sydney CBD (Sydney Australia) (Detailed design of Underground cable tunnel in Sydney CBD.)	Energy Australia	Project Manager	Maunsell (AECOM) Australia, Sydney	600	01-01-2006	30-12-2006	Australia	2000	DPR	0.99722222	Experience of Immersed Cable tunnel of length 2200 has been shown and according to the criterion we need road/rail/hydro/metro
9	North South Bypass Tunnel, Brisbane (Brisbane, Australia)	Leighton, Biffinger Berger, Baulderstone JV	Team Leader	Maunsell (AECOM) Australia, Sydney	10,200.00	01-01-2006	30-12-2006	Australia	4800	Supervision(EPC)	0.99722222	
10	M5 East Motorway Tunnel Filtration Pilot Plant (Australia) (M5 East is Australia's longest road tunnels-twin two lane tunnels spanning 3.8 kilometres between Baxley Road and Marsh Street and passing below Wolli Creek and East Hills Railway in New South Wales.)	Road and Traffic Authority	Project Manager	Maunsell (AECOM) Australia, Sydney	255	01-01-2006	30-12-2006	Australia	3800		0.99722222	Project no. 6 and 10 same project only one project considered in the criterion where no. of project required.
11	Design for Sydney CBD Underground Metro Rail Link Project, Australia	Rail Corp Australia	Project Manager	Maunsell (AECOM) Australia, Sydney	0	01-01-2007	30-12-2007	Australia	4000	DPR	0.99722222	
12	Nan Theun Hydroelectric Project, Laos (500 million USD mega project. Design of underground works, including 3 tunnels, shaft, power station and inlet and outlet structure.)	Gamuda, Malaysia	Team Leader	Maunsell (AECOM) Australia, Sydney	3,000.00	01-01-2007	31-12-2007	Laos	1500	DPR	1	
13	Sydney Desalination Plant Project (Sydney, Australia) (The total approved budget of the project was \$1.896 billion and it was delivered on time and in excess of an estimated \$60 million under this budget at the completion of construction. This is 125ML per day	John Holland Group	Team Leader	Maunsell (AECOM) Australia, Sydney	9,670.00	01-01-2007	30-12-2007	Australia	5000	DPR	0.99722222	
14	Detailed Design Airport Metro Express Line Project 2 Stations, Bored Tunnel 4.4 km & Cut and cover 1km, NATM 2.3km	Delhi Metro Rail Corporation	Team Leader	Hindustan Construction Company	1,200.00	01-05-2008	30-01-2012	India	4400	DPR	3.74722222	



15	Preliminary Design for Delhi Metro Phase III - BC45, CC04, CC05, CC07, CC20, CC24, CC23, CC37, CC30, CC34 packages. (Project comprises of management and preparation of tender specification, BOQ and design development at tender stage of 25 underground stations and bored tunnel/NATM/cut and cover tunnel corridors for underground packages BC45, CC04, CC05, CC07, CC20, CC24, CC23, CC37, CC30, CC34.)	Delhi Metro Rail Co-operation	General Manager	Hindustan Construction Company	10,000.00	01-10-2010	30-06-2012	India	25000	DPR	1.747222222	
16	Detailed Design Kishanganga hydropower plant project (Providing value engineering services to optimize segment lining steel reinforcement resulting in a saving of about INR 21 Crores for 14-kilometer-long bored tunnel (Head Race tunnel)).	NHPC	Team Leader	Hindustan Construction Company	1,300.00	01-01-2011	30-01-2013	India	14000	DPR	2.080555556	
17	Detailed Design Assam Road Tunnel Project, constructed using NATM (An innovative design of open cut method of excavation using Top Down method which has salvaged the project and increased projected profit outlook by 20 crores.)	NHPC	Team Leader	Hindustan Construction Company	340	01-10-2011	30-11-2012	India	1000	DPR	1.163888889	
18	Detailed Design Delhi Metro Phase III - CC30-2 Stations UG Length 1.1km & CC34-4 Stations UG Length 2.2 km. (3.3 Km long stretch of Underground Metro corridor).	Delhi Metro Rail Co-operation	General Manager	Parsons & Brinkerhoff	400	01-09-2013	30-11-2013	India	3300	DPR	0.247222222	
19	Chennai Metro: Detailed Design of four underground packages (UAA01, UAA02, UAA03 AND UAA05) of Chennai Metro.	Chennai Metro Rail Limited	Project Head	Parsons & Brinkerhoff	7,000.00	01-09-2013	30-08-2015	India	20000	DPR	1.997222222	
20	Detailed Design Consultancy of Chennai Metro Phase-I Extension (9km long stretch, which includes 5 Km underground, 2 UG station & Bored Tunnel).	Chennai Metro Rail Limited	Project Director	SYSTRA	1,500.00	01-09-2015		India	5000	DPR	115.6694444	
21	Detailed Design Consultancy for Lucknow Metro (This Project refers to detailed design of Civil Architectural and E & M works of Lucknow Metro North - South Corridor of Elevated section 23 Km., including 19.051 km elevated, 0.774 km ramp and 3.053 km underground. Having a total 22 stations including 19 overhead and 3 underground of CCS Airport to MunshiPulia (North-South Corridor) of Lucknow Metro Project and also inclusive of Depot connection	Lucknow Metro Rail Corporation	Project Head	SYSTRA	2,500.00	01-09-2015	31-01-2019	India	3053	DPR	3.416666667	
22	Detailed Design Consultancy for Mumbai Metro Line 3. Length: 7.2 km. Tunnel.	Mumbai Metro Rail Corporation Ltd.	Project Director	SYSTRA	1,300.00	01-09-2015	31-01-2019	India	7200	DPR	3.416666667	
23	Detailed Design Consultancy for Kolkata Metro-East-West Corridor (Design and building analysis was considered for the 8 km TBM tunnel from one launching shaft which is below Hooghly river of 520m width, just below the pier of running flyover, heritage buildings, Old multistory buildings with no much information on its design and foundation. Design was take care along with peer review by expat team.)	Transtonneltroy-AFCONS JV	Project Director	SYSTRA	1,500.00	01-09-2015	31-01-2019	India	8000	DPR	3.416666667	



Tunnel Safety Expert Turki Mohammad Said												
Sno	Work Name	Client	Designation	Employer	Project Cost (\$)	Start Date	Completion Date	Country	Maximum Individual Length of tunnel (m)	Nature of assignment	No. of years	Remarks
1	Wastewater Treatment Plant in Lynn, Massachusetts, USA	Massachusetts Water Resources Authority	Field Engineer	ASEC Corporation	120	01-01-1986	15-12-1988	USA	0	Execution	2.95555556	Experience of the key personnel is being considered from the date of completion of his graduation i.e graduate in civil engineering on date 11/09/1992.
2	Washington Street Corridor, Boston, Massachusetts, USA.	City of Boston	Field Engineer	ASEC Corporation	18	01-01-1986	31-12-1988	USA	0	Supervision(PPP)	3	
3	Albany Street Sewer Separation, Boston, MA: Resident Inspector for installation of sewer and drain lines.	Massachusetts Water Resources Authority (MWRA)	Field Engineer	ASEC Corporation	360	01-01-1986	31-12-1988	USA	0	Supervision(PPP)	3	
4	Boston Harbor Project, Boston, Massachusetts, USA.	Massachusetts Water Resources Authority (MWRA)	Safety Engineer	ASEC Corporation & Kaiser Engineer	4,000.00	01-01-1989	31-12-1997	USA	0	Supervision(EPC)	9	Experience of the key personnel is being considered from the date of completion of his graduation i.e graduate in civil engineering on date 11/09/1992. Hence, considering experience in this project from 11/09/1992 to 31/12/1997
5	CP-031-DEER Island Water Treatment Plant, Winthrop, Massachusetts, USA.	Massachusetts Water Resources Authority (MWRA)	Safety Engineer	ASEC Corporation & Kaiser Engineer	4,000.00	01-01-1989	31-12-1997	USA	0	Supervision(EPC)	9	Experience of the key personnel is being considered from the date of completion of his graduation i.e graduate in civil engineering on date 11/09/1992. Hence, considering experience in this project from 11/09/1992 to 31/12/1997.
6	CP-023-DEER Island, Winthrop, Massachusetts, USA.	Massachusetts Water Resources Authority (MWRA)	Safety Engineer	ASEC Corporation & Kaiser Engineer	4,000.00	01-01-1989	31-12-1997	USA	0	Supervision(EPC)	9	
7	CP 301-Deer Island, Winthrop, Massachusetts, USA.	Massachusetts Water Resources Authority (MWRA)	Safety Engineer	ASEC Corporation & Kaiser Engineer	4,000.00	01-01-1989	31-12-1997	USA	15288.8	Supervision(I)	9	From the information provided it can not be referred that the tunnel on which the work has been done is Rail/ Road/ Metro/ Hydro tunnel. Therefore not considered for the criteria where tunnel work required as per RFP requirement.
8	MWRA Boston Harbor Project at Deer Island, Massachusetts.	Massachusetts Water Resources Authority (MWRA)	Safety Engineer	ASEC Corporation & Kaiser Engineer	4,000.00	01-01-1989	31-12-1997	USA	0	Supervision(EPC)	9	Type of work need to be clarified from the key personnel.
9	Nut Island Headworks, Quincy, Massachusetts, USA	Massachusetts Water Resources Authority (MWRA)	Safety Engineer	ASEC Corporation & Kaiser Engineer	4,000.00	01-01-1994	30-12-1997	USA	7242.05	Supervision(EPC)	3.99722222	
10	Design and management of construction, procurement, and safety programs of Central Artery/Tunnel, CO9A7 Excavation Support/ I-90 Marine Tunnels, Boston, Massachusetts, USA	Massachusetts Port Authority (Massport)	Safety Engineer	Bechtel/Parsons-Brinckerhoff (B/PB)	16,800.00	16-01-1997	31-12-2001	USA	5632.7	Supervision(EPC)	4.95833333	
11	Design and management of construction, procurement, and safety programs of Central Artery / Tunnel, CO9B1 Fort Point Channel, Boston, Massachusetts, USA.	Massachusetts Port Authority (Massport)	Safety Engineer	Bechtel/Parsons-Brinckerhoff (B/PB)	16,800.00	16-01-1997	31-12-2001	USA	0	Supervision(EPC)	4.95833333	No tunnel work specified therefore only considered in total professional experience.
12	Design and management of construction, procurement, and safety programs of Central Artery/Tunnel, Logan International Airport Terminal E Modernization Project, Boston, Massachusetts, USA.	Massachusetts Port Authority (Massport)	Safety Engineer	Bechtel/Parsons-Brinckerhoff (B/PB)	16,800.00	16-01-1997	31-12-2001	USA	0	Supervision(EPC)	4.95833333	No tunnel work specified therefore only considered in total professional experience.
13	Design and management of construction, procurement, and safety programs of Central Artery/Tunnel, Boston, Massachusetts, USA, CO9A4 I-90/I-93 Interchange/I-93 Northbound.	Massachusetts Port Authority (Massport)	Safety Engineer	Bechtel/Parsons-Brinckerhoff (B/PB)	16,800.00	16-01-1997	31-12-2001	USA	5632.7	Supervision(EPC)	4.95833333	
14	Design and management of construction, procurement, and safety programs of Central Artery/Tunnel CA/T Safety & Health Team Boston.	Massachusetts Port Authority (Massport)	Safety Engineer	Bechtel/Parsons-Brinckerhoff (B/PB)	16,800.00	16-12-2001	31-12-2007	USA	2414.02	Supervision(EPC)	6.04166667	
15	Detail design, engineering, material procurement, construction, testing and commissioning of Riyadh Power Plant # 9, Riyadh, Saudi Arabia	Saudi Electric company (SEC)	Safety Engineer	Arabian BEMCO Contracting Co. Ltd.	7,200.00	01-01-2008	15-12-2009	Saudi Arabia	500	Supervision(EPC)	1.95555556	The appreciation certificate provided for this project is for providing services for food safety works not for construction works. Also, no tunnel work has been described in 'description of duties' section. Therefore, this project is not being considered in any criterion.
16	Detail design, engineering, material procurement, construction, testing and commissioning of Riyadh Power Plant # 10, Riyadh, Saudi Arabia.	Saudi Electric Company (SEC)	Safety Engineer	Arabian BEMCO Contracting Co. Ltd.	24,000.00	01-08-2008		Saudi Arabia	500	Supervision(EPC)	108.5861111	The appreciation certificate provided for this project is for providing services for food safety works not for construction works. Also, no tunnel work has been described in 'description of duties' section. Therefore, this project is not being considered in any criterion.
17	Juaymah Gas Plant, Ras Tanoorah, Saudi Arabia.	Juaymah Gas Plant Saudi ARAMCO	Safety Engineer	Arabian BEMCO Contracting Co. Ltd.	960	16-12-2009	30-05-2010	Saudi Arabia	0	Supervision(EPC)	0.45555556	The appreciation certificate provided for this project is for providing services for food safety works not for construction works. Also, no tunnel work has been described in 'description of duties' section. Therefore, this project is not being considered in any criterion.
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Senior Geo-technical Expert												
Christos Gioldasis												
Sno	Work Name	Client	Designation	Employer	Project Cost (€)	Start Date	Completion Date	Country	Maximum Individual Length of tunnel (m)	Nature of assignment	No. of years	Remarks
1	Military Works	Govt. of Greece	Assistant Engineer	731 DIVISION OF MILITARY WORKS	100	01-06-1996	30-11-1996	Greece	0	Supervision(EPC)	0.49722222	Marks for general qualification has been accessed as only 20 because only degree in civil engineering has been attached.
2	1. EGNATIA ODOSS S.A. Western Sector Section 3.2. Antochori to Metsovo I/C. 2. EGNATIA ODOSS S.A. Western Sector Section 3.5.1-3.5.2. Reinforced works in section of Metsovo to Panagia. 3. Irrigation works in the Paramythia valley (Phase D). 4. Irrigation works in the Acheron valley (Phase D).	Govt. of Greece	Construction Manager	GROUP OF COMPANIES: AKOTECNICAL OLYMPIC S.A. MOCHLOS S.A. & E	1,630.00	27-01-1997	27-09-2000	Greece	220	Supervision(EPC)	3.66666667	The certificate uploaded as supporting document has not been signed by any competent signatory. Please clarify.
3	EGNATIA ODOSS S.A. Western Sector Section 1.1.6. Kristalopigi - Psilorachi for 54km including NATM road tunnel.	Ministry of Transport	Construction Manager	C.I.SARANTOPOULOS S.A	548	01-10-2000	31-12-2001	Greece	680	Supervision(EPC)	1.25	The certificate uploaded as supporting document has not been signed by any competent signatory. Please clarify.
4	EGNATIA ODOSS S.A. Western Sector Section 2.4. Arachos Bridge - Peristeri including NATM Tunnel length of 3Km.(FIDIC CONTRACT)	Ministry of Transport	Construction Manager	J/V AKOHELLENIC TECHNODOMIKI S.A. & PANTECHNIKI S.A. (AKTOR GROUP)& E	1,055.00	01-02-2002	30-09-2002	Greece	3000	Execution	0.66388889	
5	1. EGNATIA ODOSS S.A. Western Sector Section 3.3-3.5.1. Right carriageway from Anilio Tunnel to Malakasi B Tunnel. Total Tunnel length 5100m. 2. EGNATIA ODOSS S.A. Western Sector Section 3.2-3.5.2. Completion Works in section of Metsovo I/C to Panagia I/C. Total Tunnel length 5000m 3. EGNATIA ODOSS S.A. Western Sector Section 3.5.1-3.5.2. Construction of G7 and G8 Bridges. 4. EGNATIA ODOSS S.A. Western Sector Section (L 2.3). Road improvement along the Ioannina - Metsovo national road from Baldu	Ministry of Transport	Resident Engineer	EGNATIA ODOSS S.A	3,925.00	01-11-2002	25-01-2010	Greece	6000	Supervision(EPC)	7.23333333	
6	1. Replacement of the central water supply pipe from the position "Paris" up to reservoir "Giroda". 2. Construction of network and wastewater treatment facility at the Municipality of Kompoti. 3. Construction of wastewater network for the Peta and Agios Dimitrios settlements. 4. Asphalt works of municipal roads in the ex municipality of Filipiada. 5. Budget. Paving of agricultural roads in the municipality of Ziros.	MUNICIPALITY OF ZIROS	Senior Engineer	MUNICIPALITY OF ZIROS	165	01-02-2010	31-12-2015	Greece	2400	Supervision(EPC)	5.91666667	Chief Engineer employed in Eptisa Servicios de ingenieria S.L. Only considered in total professional experience.
7	1. Construction of Highway E75. Section: Grdelica Garicina Dolina. LOT 3: Tunnel Predejane.(NATM Method) Contract under FIDIC Condition in EURO Area. 2. Construction of Highway E75. Section: Garicina Dolina - Vladicin Han. LOT 4: Tunnel Manajle. (NATM Method) Contract under FIDIC Condition.	Govt. of Serbia	Chief Engineer	EPTISA SERVICIOS DE INGENIERIA S.L	372	05-01-2016	30-09-2017	Serbia	3200	Supervision(EPC)	1.73611111	
8	Detailed Design Consultancy, 3D Monitoring and Construction Supervision of Tunnel 14 (Between Km 70+451 to Km 76+920) & T15 (Between Km 77+019 to 86+448) on USBRL Project in J&K. Total Tunnel Length : 32 Km approx.. (NATM Method in Himalayan region)	IRCON International Limited	Geotechnical Engineer	PEMS Engineering Consultants Pvt Ltd	2,857.50	03-03-2016	31-01-2019	India	9829	Supervision(EPC)	2.91111111	
9	1. Construction works of Aldera - Irebtj junction- Ertale junction- Ahmedela; Lot I: Aldera - Irebtj junction - Km 48+000. (FIDIC Contract) 2. Lot II: Km 48+000 - Ertale junction - Ahmedela Road 54.8km (FIDIC Contract)	Ministry of Transport	Resident Engineer	EPTISA SERVICIOS DE INGENIERIA S.L	781	15-02-2018	15-08-2018	Ethiopia	0	Supervision(EPC)	0.5	



Senior Geologist												
JANG BAHADUR CHOUDHARY												
Sno	Work Name	Client	Designation	Employer	Project Cost (Cr)	Start Date	Completion Date	Country	Maximum Individual Length of Tunnel (m)	Nature of assignment	No. of years	Remarks
1	Detailed Engineering Design of Udhampur to Banihal Section of National Highway (NH-1A) in the State of Jammu & Kashmir. NH-01A from Udhampur to Ramban sector for Highway widening and reducing length by recommending twin tunnels (T-01 & T-02) from Digdol to Panthyal (1.2km - each) to avoid Khuni nalla and (T-03 to T-04) Panthyal to Chanderkot (900m - each) to avoid panthyal slide and Ramsu to Nachlana (T-05 & T-06) (2.7km - each) to avoid Ramsu slide and Ramsu village	DST	Senior Geologist	P.G. Department of Geology, University of Jammu-Jammu, India	216	16-09-1996	10-02-1998	India	2400	DPR	1.4	These projects has been done before completion of M.Sc Geology In August 2000, which is the minimum general qualification as per RFP. Therefore, experience of these projects is not being considered. The experience of projects done after qualification as per RFP is only being considered i.e experience done after august 2000 will only be considered for evaluation.
2	Detailed Engineering Design of NH-01A from Udhampur to Ramban sector for Highway widening and reducing length by proposing tunnels in the State of Jammu and Kashmir, India. Nandan Tunnel (T-01 & T-02); Length: 1.60km, Chenani-Nashri Tunnel (T-03 & T-04); Length: 9.5km	DST	Senior Geologist	Department of Geology, University of Jammu & Jammu, India	213	01-03-1998	31-12-1999	India	9500	DPR	1.83333333	
3	Preparation of detail project report for Chutak Hydroelectric Project (44MW) Kargil - Jammu & Kashmir, India	NHPC	Senior Geologist	Department of Geology University of Jammu, India	0	03-01-2000	31-10-2001	India	2400	DPR	1.82777778	
4	Preparation of detail project report for Sewa Hydroelectric Project Stage-II (120MW) Kathua - Jammu & Kashmir, India	NHPC	Senior Geologist	Department of Geology, University of Jammu, India	0	01-11-2001	28-02-2003	India	2200	DPR	1.325	Experience being considered after August 2000. i.e 1.09.2000.
5	Detailed Engineering Design of Jangl-Thapan-Powari HEP (960 MW) Kinnour - Himachal Pradesh, India Head Race Tunnel (HRT), Length - 9.2 Kms, Tunnel with NATM.	Brackel-Kinnaur Power Private Ltd.	Senior Geologist	Halcrow Consulting India Pvt. Ltd. (Halcrow a CH2M	7,682.00	16-03-2003	31-08-2007	India	9200	DPR	4.45833333	
6	Construction Supervision of Bowala-Nanad-Paryag Hydroelectric Project (300MW) Chamoli - Uttarakhand, India. Head Race Tunnel - 10.05 km, 9.3m dia, Horse Shoe, Surge Shaft - 27m dia underground restricted orifice of 80m height, Penstock - 04 Nos., 3.0m dia each, Power House - 120m(L)x22.2m(W)x44m(H). A Barrage 05 Nos. of gates of size 11.0x8.0m	UIVNL	Senior Geologist	Halcrow Consulting India Pvt. Ltd. A CH2M HILL Company	2,226.56	01-09-2007	30-06-2008	India	10050	Supervision (EPC)	0.83055556	
7	Construction Supervision of Kishanganga Hydroelectric Project (330 MW) - Bandipora, Kashmir(J&K). 5.4m diameter, 24 km long circular shape Head Race Tunnel (HRT) - 18 km excavation was done by TBM and remaining 6 km by NATM conventional Drill & Blast Method - 746m long D-shaped Tail Race Tunnel (TRT) followed by 120m cut & cover and 111m long open channel - 37m high, concrete face rock fill dam - An underground TBM launching Chamber of 180m(L)x20m(W)x18m(H) excavated for TBM erection.)	NHPC	Senior Geologist	Halcrow Consulting India Pvt. Ltd. A CH2M HILL Company	3,642.00	01-07-2008	15-07-2011	India	24000	Supervision (EPC)	3.03888889	
8	Construction Supervision of 6-laning of Vadakancherry-thrissur section of NH-47 (Km 240-Km 270) in the state of Kerala on Design, Build, Finance, Operate & Transfer (DBFOT) pattern under NHDP phase - II. The project consists of Vadakancherry - Thrissur section from Km 240.00 to Km270.00 of NH-47, the project includes developing the existing two lane carriageway to six lane dual - there are twin tunnel (900m each) 14m wide for three lane carriageway.	Thrisur Expressway Ltd	Senior Geologist	Halcrow Consulting India Pvt. Ltd. A CH2M HILL Company	910	01-06-2010	15-07-2011	India	900	Supervision (EPC)	1.12222222	
9	Construction Supervision of 4-lane of Chenani to Nashri Tunnel Project of NH-1A (Now NH-44), from km 89.00 to km 130.00 (new alignment), 9.5 km long main tunnel (2 lanes) of 11.5m dia. with parallel escape tunnel of 6.5m dia. excavated by NATM, Udhampur (Jammu & Kashmir) India	National Highway Authority of India	Senior Geologist	Geodata Engineering Spa (Italian Engineering & Consulting Company)	2,519.00	01-08-2011	09-08-2012	India	9500	Supervision (EPC)	1.02222222	
10	Construction Supervision of Katra - Dharam between Km 42/980 to Km 48/940 Approx. section of Udhampur-Srinagar-Baramulla Rail Link Project in the State of Jammu & Kashmir T-5; Length: - 5959m	Konkan Railway Corporation Ltd	Senior Geologist	Geodata Engineering Spa (Italian Engineering & Consulting Company)	6,100.00	10-08-2011	31-01-2013	India	5959	Supervision (EPC)	1.475	
11	Etalin Hydro Electric Project (3097 MW) in the State of Arunachal Pradesh. The HRT of Dri-limb is of circular shape having 11.3m dia and 10.722km in length also having 4 intermediate excavation adits having approx. cum length of 1700m. The HRT of Tangon limb is of 9.7m diameter circular having length 13.045km having 5 no. of intermediate excavation adits of 2238m cum length. The main TRT of Dri-limb is of 11.3m dia and having 555m length while the TRT of tangon limb is of 9.5m dia with NATM.	Jindal Power Ltd (JPL)	Assistant General Manager	ETALIN HYDRO ELECTRIC POWER COMPANY LIMITED	28,726.00	14-02-2013	30-06-2015	India	23767	DPR	2.37777778	
12	Construction Supervision of Anonpani Hydro Electric Project (22MW) - Arunachal Pradesh, India. The project consists 2.5km long Head Race Tunnel (HRT), A weir and surface powerhouse. The length of the Head Race Tunnel (HRT) is 2.5km. Tunnel with NATM.	Jindal Power Ltd (JPL)	Assistant General Manager	ETALIN HYDRO ELECTRIC POWER COMPANY LIMITED	187	14-02-2013	30-06-2015	India	2500	Supervision (EPC)	2.37777778	
13	Construction of Four Laning of Ramban to Banihal Section of NH-1A (Now NH-44) From Km 151.000 to 187.000 on EPC Mode in the State of Jammu & Kashmir Under NHDP Phase-II. The project involved 36.000 Km four laning road among that 36.000KM widening of existing road (North Bound) and 36.000 KM fresh slope cutting for new road (South Bound) - there are 06 no. of tunnels of 11.5m diameter having cumulative length of 3.0Km and excavated by NATM & 27 No. of Major & Minor Bridge and 302 culverts.	National Highways Authority of India	Senior Geologist	Hindustan Construction Co Ltd (HCC)	1,783.42	12-10-2015	31-03-2018	India	870	Supervision (EPC)	2.46944444	
14	Construction Supervision of Nikachhu Hydro Power Project (118MW) at Trongsa - Bhutan. Tunnel with NATM.	Tangsibji Hydro Energy Limited (ThyE)	Senior Geologist	SMEC India Private Ltd.	432.2	12-06-2018	31-01-2019	Bhutan	12144	Supervision (EPC)	0.63611111	



Tunnel ventilation cum E&M Expert												
Dilgeer Singh												
Sno	Work Name	Client	Designation	Employer	Project Cost (Cr)	Start Date	Completion Date	Country	Maximum Individual Length of tunnel (m)	Nature of assignment	No. of years	Remarks
1	Construction and Supervision Broad Gauge Railway line between Udhampur - Katra in connection with Udhampur - Srinagar - Baramulla Rail Link Project under Indian Railways (Northern Section) in the state Jammu and Kashmir, Tunnel No.1, length: 3.14Km, Tunnel No.4, length:1.345Km, Tunnel No.5, length 0.975Km	Northern Railway	Senior E&M Expert	Patel Engineering Ltd	600	01-07-1997	30-09-2001	India	3140	Supervision (EPC)	4.247222222	
2	Construction Supervision of Katra - Loole Section, J&K under (Udhampur - Srinagar - Baramulla Rail Link) Project in the state of J&K, Hilly Terrain, Construction of Tunnel No-3, length 3010 m Construction by NATM method; Tunnel No-1 length 2685 m	Northern Railway	Senior E&M Expert	Konkan Railway Construction Ltd	500	01-10-2001	31-10-2010	India	3010	Supervision (EPC)	9.083333333	
3	Udhampur - Srinagar - Baramulla Rail Line Project, Under Konkan Railway Construction Ltd. in the State of Jammu & Kashmir, Hilly Terrain, Construction of Tunnel No.6, length:3465 m and Tunnel No. 7, length: 6120 m	Konkan Railway Construction Ltd	Senior E&M Expert	Rithwik	1,200.00	01-01-2011	30-11-2013	India	6120	Supervision (EPC)	2.913888889	
4	Construction for Rehabilitation, Strengthening and 4-laning of Jammu Udhampur section of NH-1A, from Km 15.00 (on Jammu Bypass) to Km 67.00 on BOT (Annuity) basis in the State of Jammu & Kashmir, BOT Basis, 4 Nos. Tunnels, Major Transportation Tunnels: • Tunnel T-1: 187 Meter • Tunnel T-2: 270 Meter • Tunnel T-3: 474 Meter • Tunnel T-4: 560 Meter	NHAI	Senior E&M Expert	AFCONS Infrastructure Ltd.	1,800.00	01-04-2013	31-05-2014	India	560	Supervision (EPC)	1.166666667	
5	Construction and Supervision of 4G Telecommunication Project in the State of Punjab	Reliance Infracon Ltd	Project Coordinator	Reliance Infracon Ltd	300	02-06-2014	05-09-2017	India	0	Supervision (EPC)	3.258333333	



Contract Specialist												
Sanjeev Kumar Bhatnagar												
Sno	Work Name	Client	Designation	Employer	Project Cost (Cr)	Start Date	Completion Date	Country	Maximum Individual Length of tunnel (m)	Nature of assignment	No. of years	Remarks
1	Construction of Synthetic Polymers Plant and Roads at Khatima, in the state of Uttar Pradesh, Client: Easter India Limited.	Easter India Limited	Assistant Highway Engineer / Quantity Surveyor	Sikand Construction Projects, Khatima	48	01-03-1986	31-12-1986	India	0	Execution	0.83333333	
2	Construction of Internal Roads & Multi-storied Complex at Jaipur, in the state of Rajasthan, Client: JDA	JDA	Structural Engineer	Combined Consultants, Jaipur	61	01-01-1987	30-11-1987	India	0	Execution	0.91388889	
3	Construction of 400 KVA Sub-Station at Kishwar in the state of Jammu & Kashmir, Client NHPC	NHPC	Assistant Engineer	Genelec Limited	76	30-11-1987	31-12-1990	India	0	Other works	3.08333333	
4	Expansion of Infrastructure facilities of Sugar Plant including Construction of 2-lane road of length 18 km and associated CD works, in the state of Uttar Pradesh.	Govt. of UP	Engineer	Gangeshwar Ltd. (A sugar unit of TEW Bangalore), Deoband, (I.I.P.I)	18	01-01-1991	31-07-1994	India	0	Execution	3.58333333	
5	Construction of 2-lane road length 20 Km including Industrial Buildings and Sugar Godowns, in the state of Uttar Pradesh.	Govt. of UP	Assistant Engineer	Dwarikesh Sugar Industries Ltd.,	42	31-08-1994	31-07-1996	India	0	Execution	1.91666667	
6	Construction of Ganga Bridge at Allahabad across the river Ganga at Allahabad for Northern Railway from Km. 145/7 to Km. 146/1 of length 1.05 km	Northern Railway	Quantity Surveyor cum Documentation Expert	Bhagheertha Engg. Ltd. Kharanpur	65	31-07-1996	28-02-1998	India	0	Other works	1.57777778	
7	Construction of Kalinadi Bridge for Konkan Railway of length 1.28 km, RCC Pile Foundation, RCC Mass Concrete Substructure and PSC Box Girders of 41 spans of 30.5 m each.	Konkan Railways	Quantity Surveyor cum Documentation Expert	Bhagheertha Engg. Ltd. Kharanpur	80	01-03-1998	30-04-2000	India	0	Execution	2.16388889	
8	Construction for Upgradation and Strengthening of 2/4 Lane Bhav Nagar to Kodiar Road of length 136 km on SH-28 in the state of Gujarat.	GRSNL	Contract Specialist	Apco Construction (P) Ltd	169	01-06-2000	30-04-2002	India	0	Execution	1.91388889	
9	Re-construction, Widening and Strengthening of 2-lane Ujjain – Jhalawar Road (SH-22) of length 200 km including Rehabilitation and Re-construction of 103.6 m long Shirna River Bridge and 76.8 m Nallah Bridge the state of Madhya Pradesh, on BOT basis	MPRDL	Contract Specialist	Artefact Projects Ltd.	127	30-04-2002	31-01-2003	India	0	Execution	0.75	
10	Construction and Upgradation of existing 2-Lane to 4-Lane of NH-2 (GTMP/8-B) from Km. 250.5 to Km. 307.5 (Shikohabad – Etawah bypass (start) of length 59.02 km, in the state of Uttar Pradesh, executed under FIDIC Conditions of Contract & ICB procedures, World Bank Funded	NHAI	Contract Specialist	China Coal Construction Group Corporation	157	01-02-2003	31-05-2004	India	0	Execution	1.33333333	
11	Construction and Upgradation of Rural Roads under PMGSY in Chhattisgarh State for six districts of in Rajpur Package for CGRDA in the state of Chhattisgarh executed under FIDIC Condition of Contract.	NRRDA	Contract Specialist	Mahendra Raj Consultants Pvt. Ltd.	130	01-06-2004	30-04-2005	India	0	Other works	0.91388889	Construction of rural roads has been done and we need highway project under the criterion b(i) for contract specialist of RFP. Therefore not considered under this criterion.
12	Construction of 4 lane Salalah-Muscat Highway from km. 32+000 to km. 58+000 and Construction of Salalah Free Zone Infrastructure Works under FIDIC Conditions of Contract.	Sultanate of Oman	Senior Quantity Surveyor / Contract Specialist	Nasr Arabian Company, Salalah in Sultanate of Oman	392	30-04-2005	30-11-2005	Oman	0	Execution	0.58333333	
13	Construction Supervision for Rehabilitation and Upgradation of Km. 579.000 to Km. 610.000 of NH-76 (Rajasthan / MP Border to Junction of NH-76 / NH-3) to 4 Lane Configuration and Construction of 4 Lane Shivpuri Bypass from Km. 15 to Km. 0 connecting NH-76 to NH-25 in the state of Madhya Pradesh, Package EW-II (MP-1), executed under FIDIC Conditions of Contract & ICB procedures, ADB Funded	NHAI	Senior Quantity Surveyor / Contract Specialist	Renardet S.A., Switzerland	360	01-12-2005	31-03-2008	India	0	Supervision(EPC)	2.33333333	
14	Construction for Widening & Strengthening to 2/4 lane road from Sikandra to Alwar and Phalodi to Ramji Ki Gol of length 191 km under Mega Highways Project, in the state of Rajasthan	RIDCOR	Contract Specialist	IVRCL Infrastructure Projects Ltd.	328	01-04-2008	30-11-2008	India	0	Other works	0.66388889	
15	Consultancy Services for Construction Supervision of Existing Carriageway of two lane for Madhya Pradesh Road Sector Project Phase II Package 2 (Jabalpur	MPRDC	Senior Quantity Surveyor / Contract Specialist	Scott Wilson India Pvt. Ltd.	800	01-12-2008	30-09-2009	India	0	Supervision(EPC)	0.83055556	
16	Project Management Consultancy for Six Lining of Gurgaon – Kotputli – Jaipur Section of NH-8 from Km. 42.70 to Km. 273.00 of Length 225.60 km in the States of Haryana And Rajasthan to be executed as BOT (Toll) on DBFO Pattern under NHDP Phase-V	NHAI	Resident Engineer	Consulting Engineers Group Limited	2,640.00	30-10-2009	30-09-2011	India	0	Supervision(PPP)	1.91666667	
17	Consultancy Services for Preparation of Detailed Project Report for Rehabilitation and Upgrading to 4-Lane configuration of Lucknow – Sultanpur Varanasi section of length 300 km, in the state of Uttar Pradesh.	NHAI	Senior Quantity Surveyor / Contract Specialist	Consulting Engineers Group Limited	940	05-11-2009	10-07-2010	India	0	DPR	0.68055556	
18	Consultancy Service for Preparation of Feasibility Study Report for Rehabilitation and Upgrading to 4-Lane with paved shoulders configuration of Gwalior – Dewas section of NH-3 of total length 400 km, under NHDP Phase- IV in the state of Madhya Pradesh.	NHAI	Senior Quantity Surveyor / Contract Specialist	Consulting Engineers Group Limited	1,120.00	20-01-2010	10-08-2010	India	0	DPR	0.55555556	Experience of handling variation orders, claims of contractor not shown. Therefore not considered in criterion c(i).
19	Consultancy Services for Feasibility Study and Detailed Project Report for 4/6-Laning of Jabalpur – Rewa Section of length 217 km, of NH-7 in the state of Madhya Pradesh	NHAI	Senior Quantity Surveyor / Contract Specialist	Consulting Engineers Group Limited	580	20-08-2010	05-06-2011	India	0	DPR	0.79166667	Experience of handling variation orders, claims of contractor not shown. Therefore not considered in criterion c(i).
20	Project Management Consultancy for Four Lanning of Jaipur-Tonk-Deoli Section of NH-12 from Km.18.700 to Km.165.000 of length 146.3 km, in the state of Rajasthan under NHDP Phase III on DBFOT pattern. Cost 825 crs.	NHAI	Team Leader	STUP Consultants Pvt. Ltd	825	01-10-2011	31-03-2013	India	0	Other works	1.5	Nature of assignment in this project has been shown as 'other works'. Please clarify the nature of work performed by the key personnel under this project only then this project will be considered for evaluation.
21	Construction of four laning of NH-79 Chittorgarh to Neemuch (MP Border from Km 183+000 to 227+000 Length 44 km (4/6 lanes) and Two Laning of NH-113 Nimbhera to Pratapgarh from km 0+000 to 80+000 Length 80 km (2/4 lanes) in the State of Rajasthan under PPP NH Division PWD Rajasthan, Client: Govt. of Rajasthan.	PWD RAJASTHAN	Senior Contract Specialist	Chetak Enterprises Pvt. Ltd.	611	01-04-2013	31-03-2014	India	0	Other works	1	Nature of assignment in this project has been shown as 'other works'. Please clarify the nature of work performed by the key personnel under this project only then this project will be considered for evaluation.
22	Consultancy Services for Authoritis Engineer for Supervision of 2 laning with paved shoulders of Sitarganj – Bareilly section of NH -74 (New NH-30) from Km. 254.820 to Km. 329.280 in the state of Uttar Pradesh & Utrkhand on EPC Mode under NHDP. Length-74.46 kms.	NHAI	Senior Contract Specialist	Specialized Engineering Services Pvt. Ltd.	279	01-04-2014	27-01-2016	India	0	Supervision(EPC)	1.82222222	
23	Consultancy Services for Authoritis Engineer for Supervision of 2 laning with paved shoulders of Sitarganj – Bareilly section of NH -74 (New NH-30) from Km. 254.820 to Km. 329.280 in the state of Uttar Pradesh & Utrkhand on EPC Mode under NHDP. Length-74.46 kms.	NHAI	Senior Contract Specialist	Specialized Engineering Services Pvt. Ltd.	279	01-04-2014	28-12-2018	India	0	Supervision(EPC)	4.71666667	
24	Consultancy services for Authoritis Engineer for supervision of the project of construction of Four laning of UP/Haryana border- Yamunanagar-Saha-Barwala-Panchkula Section of NH-73 from km 160.357 to km 179.249 (Design km 157.192 to km 176.400) in the State of Haryana (Package-3	NHAI	Senior Contract Specialist	Yongma Engineering Co. Ltd in association with Sterling Indo Tech Consultants P Ltd	248.97	16-05-2017	31-01-2019	India	0	Supervision(EPC)	1.70833333	



Instrumentation & Control (SCADA) Expert												
SUMANTO DUTTA												
Sno	Work Name	Client	Designation	Employer	Project Cost (₹)	Start Date	Completion Date	Country	Maximum Individual Length of tunnel (m)	Nature of assignment	No. of years	Remarks
1	The plant consisted of 2x500 MW, 2x210 MW and 3x100MW units. Baderpur Thermal Power Plant, Delhi, India	Baderpur Thermal Power Plant	Executive Engineer	National Thermal Power Corporation of India	0	01-09-1983	15-04-1984	India	0	Other works	0.62222222	
2	NQ Process complex, Bombay High Offshore field, India.	Oil & Natural Gas Corporation of India	Assistant Executive Engineer	Oil & Natural Gas Corporation of India	0	16-04-1984	30-07-1987	India	0	Other works	3.28888889	
3	Sour Gas Processing Complex, Hazira, India (Total capacity at that time was 40 MMSCMO of Sour Gas). This Onshore complex comprised of various plants, like, Gas terminal, Slug catcher, Gas sweetening, Gas Dehydration, Dew point depression, Condensate Fractionating, LPG recovery, Sulfur recovery, Sulfur palletizing and bagging, Frame V Gas Turbine generators, HRSG, boilers, rail/truck loading gantries and other plant utilities.	Oil & Natural Gas Corporation of India	Executive Engineer	Oil & Natural Gas Corporation of India	0	01-08-1987	10-05-1993	India	0	Other works	5.775	
4	Geo-physical Electronics Lab., Assam, India.	Oil & Natural Gas Corporation of India	Other	Oil & Natural Gas Corporation of India	0	11-05-1993	09-06-1994	India	0	Other works	1.07777778	
5	The Offshore complex consisted of four (4) nos. bridge connected Oil & Gas separation, pumping & compression platforms and twenty-one (21) nos. unmanned wellhead production platforms. at NQ Process complex, Bombay High Offshore field, India.	Oil & Natural Gas Corporation of India	Superintending Engineer	Oil & Natural Gas Corporation of India	0	10-06-1994	15-06-1998	India	0	Other works	4.01388889	
6	Modernization of Offshore control systems (MOOCS) project at Umm-Shaif Super Complex. The project covered the installation/upgrade of DCS, ESD, SCADA, Turbine Control and F&G systems on ADMA's Zakum West and Umm Shaif super-complexes.	Abu Dhabi Marine Operating Company (ADMA-OPCO)	Other	Abu Dhabi Marine Operating Company (ADMA-OPCO)	0	16-06-1998	30-07-1999	United Arab Emirates	0	Other works	1.12222222	
7	Zero Flaring Project (ZFP) The project involved process upgrade and modifications on CFP offshore production platform and Onshore facilities at Mubarratz island, to mitigate Air Pollution, by reduction of Sour Gas flaring offshore and transportation of the gas to Mubarratz Island for further processing and compression, prior to re-injection into the reservoir.	Abu Dhabi Oil Company (Japan) (ADOC)	Project Engineer	Abu Dhabi Oil Company (Japan) (ADOC)	0	01-11-1999	15-02-2001	United Arab Emirates	0	Other works	1.28888889	
8	Upgrade of Ventilation and F&G System on Umm Shaif and Zakum Accommodation Platforms.	Abu-Dhabi Marine Operating Company (ADMA-OPCO)	Other	Abu-Dhabi Marine Operating Company (ADMA-OPCO)	0	16-02-2001	20-05-2001	United Arab Emirates	0	Other works	0.26111111	
9	Offshore Khuff Gas Development Project, Abu Dhabi, U.A.E.	ABB Lummus Global B.V. Den Haag.	Other	ABB Lummus Global B.V. Den Haag.	0	21-05-2001	22-04-2006	United Arab Emirates	0	Other works	4.91944444	
10	Replacement of Submarine Composite Cable (EB-7 to WHP-B).	BUNDUQ Oil Producing Company	Other	BUNDUQ Oil Producing Company	0	23-04-2006	28-07-2006	United Arab Emirates	0	Other works	0.26388889	
11	Shutdown & Campaigns Team / Maintenance Department.	Abu-Dhabi Marine Operating Company (ADMA-OPCO)	Other	Abu-Dhabi Marine Operating Company (ADMA-OPCO)	0	29-07-2006	31-05-2013	United Arab Emirates	0	Other works	6.83888889	
12	Maintenance Support team / Maintenance Department.	Abu-Dhabi Marine Operating Company (ADMA-OPCO)	Other	Abu-Dhabi Marine Operating Company (ADMA-OPCO)	0	01-06-2013	31-12-2014	United Arab Emirates	0	Other works	1.58333333	
13	Halon Replacement Project, ADMA-OPCO Offshore installations.	Silvertch Middle East Dubai	Other	Silvertch Middle East Dubai	0	16-05-2016	30-12-2016	United Arab Emirates	0	Other works	0.62222222	
14	AR Infotech, Guwahati. AR Infotech is a Panasonic ASC and Supplier of Electronic machines and test equipment to various institutions of	AR Infotech	Technical Advisor	Free Lance Consultant	0	01-01-2017	31-01-2019	India	0	Other works	2.08333333	
15	Consultant for automation of Paint manufacturing machines with RBJ Industries. RBJ is a manufacturer of Paint Making Machines based in Kolkata.	RBJ Industries	Other	Free Lance Consultant	0	01-01-2017	31-01-2019	India	0	Other works	2.08333333	



M/s Energy InfraTech Private Limited in association with Mainhardt Singapore PTE. Ltd.												
Team Leader cum Senior Tunnel Expert												
Nikolaos Kostopoulos												
1	Graduation				NOTE: The key personnel has only provided transcripts of graduation degree even without any specific stamp of the respective government.							
2	Post Graduation				Note: In addition to degrees and transcripts, the key personnel has only provided transcripts of graduation degree even without any specific stamp of the respective government.							
Sno	Work Name	Client	Designation	Employer	Project Cost (€)	Start Date	Completion Date	Country	Maximum Individual Length of tunnel (m)	Nature of assignment	No. of years	Remarks
1	Military projects (Road Tunnels (NATM))	Military Services	Construction Manager	Military Services	600	01-06-1983	31-12-1986	Greece	1800	Supervision (EPC)	3.583333	
2	Design of Luxury Villas for Chalcidice Resort/North Greece.	Chalcidice Resort North Greece	Structural Engineer	Own Technical Office	50	01-01-1987	31-03-1988	Greece	0	Other works	1.25	
3	Survey Tunnel in Malava springs with marine works for access	Prefecture of Lassithi Crete - Department of Hydraulic Projects	Engineer	Prefecture of Lassithi Crete at Department of Hydraulic Projects	175	18-04-1988	11-03-1992	Greece	400	Supervision (EPC)	3.897222	
4	Large concrete water tanks (2500 m3) – culvert boxes – rural roads – irrigation network with HDPE or steel pipes in a total length 500,00 Km.	Athenaiki Techniki S.A (Greek)	Project Manager	Athenaiki Techniki S.A (Greek)	150	14-03-1992	31-12-1995	Greece	0	Other works	3.797222	
5	PATHE Expressway (E75-Trans-European Road Network) – Section: East By-Pass of Larissa / 22 Km of total 8 lanes motorway.	Trans-European road network	Project Manager	GEKAT S.A (Greek)	571.33	01-01-1996	28-06-1997	Greece	0	Supervision (EPC)	1.491667	
6	Construction of Egnatia Odos Motorway section Komotini – Strymi 29 Km. of 4 lanes Motorway	J/V DORSCH (Greek)-SCETAURROUTE (French)-ADO (Greek)	Construction Manager	J/V DORSCH (Greek)-SCETAURROUTE (French)-ADO (Greek)	569.05	30-06-1997	30-04-1998	Greece	0	Execution	0.833333	
7	Construction of 8,00 Km Tempi Valley Tunnel concerning the new main HIGH SPEED RAILWAY LINE from Evagelimos to Rapsani. Construction of four railway overpasses between CH: 387,00 and CH: 399,00 of the new main railway line Athens – Thessaloniki	Hellenic Railways Organization	Project Manager	Ergose S. A at Subsidiary of The Hellenic Railways Organization	101.14	01-05-1998	31-01-2000	Greece	8000	Execution	1.75	
8	Construction of Athens Metro Sepolia – Peristeri with NATM (Triple track tunnel & Stations) Length 6.70 Km	Μετρό Αθηνών, Μετρό Αθinas	Project Manager	J/V - ALPINE MAYREDER BAU (Austrian) at WAYSS &	379.37	01-02-2000	28-02-2003	Greece	6700	Execution	3.075	
9	Athens Olympic Games 2004 – Construction of Alimou Avenue Trumpet seaside Interchange – Rehabilitation of seaside Possidonos Avenue from Alimou up to Agios Kosmas with extensive of Public Welfare Installations and Agios Kosmas Marine works.	Athens County Transportation Improvement District (ACTID)	Project Manager	PANTECHNICA S.A (Greek) at Subsidiary of International Construction Company Aktor	433.99	01-03-2003	31-12-2004	Greece	0	Supervision (EPC)	1.833333	
10	Design and Construction of the Highway and Railway segment of Kalia Skala – PATHE Expressway (E75-Trans-European Road Network & National Railway Network Tunnels)	Regulatory Authority for Railways (RAS)	Project Manager		680.58	01-01-2005	10-05-2007	Greece	1900	DPR	2.358333	The key personnel has shown nature of assignment as 'DPR' and experience of construction supervision has also been shown in the project. Considering Nature of assignment i.e DPR marks has been allotted.
11	Sirte Commercial Port (Sirte- Libya)	LPMTA	Project Director	J&P Overseas Ltd (CY)	384.67	01-06-2007	12-10-2008	Greece	0	Supervision (EPC)	1.363889	
12	Design, Construction & supervision of a new 178Km Central Greece Expressway (E65-Trans-European Road Network) from Lamia to Egnatia Odos Expressway (E90-Trans-European Road Network Tunnels).	Hellenic Republic	Team Leader cum Senior Tunnel Expert	Scott Wilson Ltd (Now AECOM) J/V OMEK (Greek)	932.49	15-10-2008	10-09-2012	Greece	3000	DPR	3.902778	The key personnel has shown nature of assignment as 'DPR' and experience of construction supervision has also been shown in the project. Considering Nature of assignment i.e DPR marks has been allotted.
13	Construction of a flyover (viaduct) bridge along King Faisal Road (Coastal Road) at King Abdul Aziz Road Intersection (Port Road), Dammam, KSA	ArRiyadh Development Authority	Project Manager	Al Yamama Group of Companies (Saudi Arabian)	341.89	15-09-2012	23-09-2013	Saudi Arabia	0	Supervision (EPC)	1.022222	
14	Delhi Metro - Contract CC-23 (UG-4). Design and Construction of tunnel between Hauz Khas Station and Kalkaji Station by Shield TBM, NATM Tunnel near Chirag Delhi & Kalkaji Station and Underground Rump beyond Kalkaji Station by C&C Method, Underground Metro Station at Panchsheel Park, Chirag Delhi, GK, Enclave I, Nehru Place and Kalkaji by C&C Method on Janakpuri West Botanical Garden Corridor of Delhi MRTS Project of Phase III.	Delhi Metro Rail Corporation	Project Manager	Pratibha Industries Ltd (Indian)	228	24-09-2013	10-10-2014	India	6900	Supervision (EPC)	1.044444	
15	Design & Construction Supervision of Waste Water Tunnel from Manfouha STP to Al Haer STP (Length 12.0 Km.)	National Water Company	Project Manager	ILF-Tecon & Partners Engineering PSC	794.99	15-10-2014	30-03-2016	Saudi Arabia	12000	DPR	1.458333	
16	Consultancy Services for performing role of "Engineer" for Construction of 8.80 km long Highway Tunnel across Rohtang Pass near Manali in Himachal Pradesh in India. Project Rohtang Tunnel, Border Roads Organization, Government of India	Border Roads Organisation	Senior Tunnel Expert	D2 Consult International	1,500.00	01-04-2016	31-01-2017	India	8800	Supervision (EPC)	0.833333	
17	Detailed Design Consultancy, 3D Monitoring & Supervision of Tunnel T-3, T-4, T-5 & Tunnel T-6 in connection with Construction of Sivok to Rangpo new single line BG Railway Line Project	IRCON International Ltd.	Senior Tunnel Expert	AECOM India Company Limited	600	01-02-2017	31-01-2019	India	3966	DPR	2	



Resident Engineer cum Excavation Specialist Rayees Ahmad												
Sno	Work Name	Client	Designation	Employer	Project Cost (Cr)	Start Date	Completion Date	Country	Maximum Individual Length of tunnel (m)	Nature of assignment	No. of years	Remarks
1	Pile foundation for Shreya Tower	Municipal Corporation Gulbarga	Site Engineer	DBM GEO Techniques and Constructions Pvt. Ltd	5	01-12-1999	30-11-2000	India	0	Other works	0.997222	
2	Baglihar Hydroelectric Project (450 MW)	Jammu & Kashmir Power Development Corporation	Field Engineer	Jaiprakash Industries Ltd	2,000.00	26-12-2000	26-07-2003	India	4000	Supervision(EP C)	2.583333	Nature of assignment has been mentioned as Supervision but no duties has been mentioned for the said assignment. Therefore, this project is being considered only in total professional experience.
3	Baglihar Hydroelectric Project (450 MW)	Jammu & Kashmir Power Development Corporation	Field Engineer	Jaiprakash Industries Ltd	2,000.00	26-12-2000	26-07-2003	India	0	Other works	2.583333	
4	Design and PMC for New B.G Railway line from Katra - Laole section of Udhampur - Srinagar - Baramullah Rail Link Project (J&K), India for Northern Railway Tunnel Length: 2.5 Kms, 3.5kms and 5.5 Kms by New Austrian Tunneling Method.	Konkan Railway Corporation	Resident Engineer	Konkan Railway Corporation Ltd	10,000.00	01-08-2003	30-06-2011	India	5500	Supervision(EP C)	7.913889	
5	Design and PMC for New B.G Railway line from Katra - Laole section of Udhampur - Srinagar - Baramullah Rail Link Project (J&K), India for Northern Railway Tunnel Length: 2.5 Kms, 3.5kms and 5.5 Kms by New Austrian Tunneling Method	Konkan Railway Corporation	Resident Engineer	Konkan Railway Corporation Ltd	10,000.00	01-08-2003	30-06-2011	India	5500	DPR	7.913889	
6	Rehabilitation, Strengthening and four laning of Qazigund to Banihal Section from KM.189.35 to KM.204.700 of NH 1A including 2 Tunnels (2 Lanes) of 0.69 KM and 8.45 KM length by NATM Method (TWIN TUBES) on NH 1A on DFBOT (Annuity) basis in the state of Jammu and Kashmir	National Highway Authority of India	Sr. Tunnel Engineer	Rodic Consultants Pvt.Ltd	1,987.00	01-07-2011	30-04-2014	India	8450	Supervision(PP P)	2.830556	
7	Abu Hamour Surface and ground Water Drainage Tunnel of Length 9.5 KM driven by 02 Earth pressure Balance Tunnel Boring Machines. It also includes 23 no of shafts connected by Micro tunnels	Qatar Public Works Authority (ASHGAL)	Sr. Tunnel Engineer	CDM Smith INC	8,028.73	01-05-2014	29-09-2016	Qatar	10000	Supervision(PP P)	2.411111	
8	Abu Hamour Surface and ground Water Drainage Tunnel of Length 9.5 KM driven by 02 Earth pressure Balance Tunnel Boring Machines. It also includes 23 no of shafts connected by Micro tunnels	Qatar Public Works Authority (ASHGAL)	Sr. Tunnel Engineer	CDM Smith INC	8,028.73	01-05-2014	29-09-2016	Qatar	10000	DPR	2.411111	
9	Design and PMC for Construction of new broad gauge railway line from Obulavaripalle to Venkatachalam section which includes the construction of 02 tunnels of length 960 and 6700 meter by New Austrian Tunneling Method for Rail Vikas Nigam Limited in the state of Andhra Pradesh India.	Rail Vikas Nigam Limited	Senior Tunnel Expert	Ayasa India Pvt limited	450	01-10-2016	31-03-2018	India	6700	DPR	1.5	
10	Design and PMC for Construction of new broad gauge railway line from Obulavaripalle to Venkatachalam section which includes the construction of 02 tunnels of length 960 and 6700 meter by New Austrian Tunneling Method for Rail Vikas Nigam Limited in the state of Andhra Pradesh India.	Rail Vikas Nigam Limited	Senior Tunnel Expert	Ayasa India Pvt limited	450	01-10-2016	31-03-2018	India	6700	Supervision (EPC)	1.5	
11	Design and PMC for Construction , operation and maintenance of 2 Morh Tunnel of length 6.5 Kms with Egress tunnel of length 6.5 Kms including approaches on National Highway No.1 (Srinagar Sonamarg Gumri Road) in the state of Jammu and Kashmir on Design, Build, Finance and operate and transfer (DFBOT) Annuity Basis by New Austrian Tunneling Method.	NHIDCL	Sr. Tunnel Engineer	Eptisa India Pvt.Ltd	2,100.00	01-04-2018	31-01-2019	India	6500	Supervision (EPC)	0.833333	



Tunnel Design Engineer

Hussein Ahmed Falzi

Sno	Work Name	Client	Designation	Employer	Project Cost (Cr)	Start Date	Completion Date	Country	Maximum Individual Length of tunnel (m)	Nature of assignment	No. of years	Remarks
1	Project preparation/DPR including Design of rapid transit system in the state capital, Atlanta, Georgia, USA, Peachtree Center Station, North-South Line, Tunnel Length : 6.7 Km	MARTA	Project Engineer	E. W. Finley & Partners, Atlanta, GA, USA	8,040.00	03-06-1984	07-07-1988	USA	6700	DPR	4.094444	
2	Various Road, Ports, Highways, Bridges	US Government, SBA, Disaster Assistance Division	Other	US SBA, Atlanta GA, USA	1,000.00	07-07-1988	03-09-1993	USA	0	DPR	5.155556	
3	Design and Construction of 5.0 km KCRC DB350 Tai Lam Tunnel, New Territories, Hong Kong, KCRC DB350 Tai Lam Tunnel, New Territories, Hong Kong, Tunnel Length : 5.0 Km	Kowloon-Canton Railway Corporation	Other	Kowloon-Canton Railway Corporation	1,500.00	03-09-1993	23-02-1998	Hong Kong	5000	DPR	4.472222	The key personnel has mentioned as 'other', 'Principal Engineer', 'Tunnel design engineer' under the heads 'designation', 'duties and responsibilities' and under taking provided by the key personnel respectively. Please clarify the designation.
4	Project Preparation/DPR involving Design of 3 Km KCRC DB320 Kwai Tsing Tunnels, New Territories, Hong Kong, KCRC DB320 Kwai Tsing Tunnels, New Territories, Hong Kong, Tunnel Length : 3.0 Km	NECSO Entrecanales Cubiertas, S.A.	Senior Engineer	NECSO Entrecanales Cubiertas, S.A.	1,000.00	23-02-1998	12-03-2001	Hong Kong	0	DPR	3.052778	Senior Engineer to be considered similar capacity or not. Tunnel length mentioned in 'name of work' instead of specific column provided for individual length of tunnel.
5	Design, Build Finance and Operate (DBFO) PPP scheme comprised 10 km of new dual carriageway trunk road and new bridge over Swale estuary. Scheme cost £100m, A249 Iwade to Queenborough	Department for Transport	Project Head	Highways England, UK	2,000.00	12-03-2001	04-02-2002	U.K.	0	DPR	0.894444	
6	Project Preparation, Detailed Design and Construction Supervision of Twin bore tunnel excavated mechanical diggers and supported by sprayed concrete linings with emergency	Department for Transport	Project Manager	Highways England, UK	2,280.00	04-02-2002	23-01-2006	U.K.	2100	Supervision (EPC)	3.969444	Nature of assignment is Supervision(EPC) but the design work involving DPR has also been shown under the column 'duties and responsibilities'. Therefore this
7	Feasibility and design of light rail transit corridor consisting of 16km of new track within an urban area and four stations, East London Transit Phase 1A	Transport for London	Other	Aecom, UK	700	22-01-2006	07-02-2007	U.K.	0	Supervision (EPC)	1.041667	
8	Project preparation/DPR of completely new urban metro rail system comprising 166 km of track, 57 stations including at grade, elevated and underground stations, Dubai Metro, Tunnel Length : 14.5 Km	Road & Transport Authority (RTA)	Other	Parsons, Dubai, UAE	5,040.00	06-02-2007	18-03-2008	United Arab Emirates	14500	DPR	1.116667	The key personnel has mentioned designation as 'Other' but he has also mentioned that he did work as Sr. Project Manager under the column 'duties and responsibilities'. Therefore similar capacity considered.
9	The Lagoons development consisted of seven artificial islands, each linked by causeways and monorail system, the Lagoons, Light Rail System, Dubai,	Sama Dubai	Other	Sama-ECH JV, Dubai, UAE	30,000.00	16-03-2008	23-11-2009	United Arab Emirates	0	Supervision (EPC)	1.686111	The key personnel has mentioned designation as 'Other' but he has also mentioned that he did work as Sr. Project Manager under the column 'duties and responsibilities'. Therefore similar capacity considered.
10	Haramain (Makkah to Madin) Design and Construction works for 450 km of Haramain (Makkah to Madina) high speed railway, High Speed Railway,	Saudi Railways Organization	Other	Al Rajhi Alliance, Jeddah, KSA	12,000.00	23-11-2009	13-11-2010	Saudi Arabia	0	DPR	0.972222	
11	Design and Construction of Honam High Speed Rail project, Honam High Speed Rail project, Tunnel Length: 49 Km	Korea Rail Network Authority	General Manager	Samsung C&T, Seoul, Korea	58,800.00	13-11-2010	15-12-2012	Korea-South	17000	DPR	2.088889	
12	Integrated Services of Engineering Designs of Rapid transit system for the capital city, Doha in Qatar, Doha Metro project, Tunnel Length: 33 Km	Qatar Rail	Other	Heavy Civils, Ramboll ME, Abu Dhabi, UAE	39,600.00	15-12-2012	12-01-2014	Qatar	6700	Supervision (EPC)	1.075	
13	Design and Supervision of Rapid Transit System in capital city of Riyadh, Saudi Arabia, Riyadh Metro project, Tunnel Length: 38Km Construction Methodology: NATM/TBM/Drill Blast	Rapid Transit System in capital city of Riyadh	Project Director	Bureau Veritas, Riyadh, KSA	49,500.00	12-01-2014	12-02-2016	Saudi Arabia	18000	Supervision (EPC)	2.083333	
14	General Consultant for Lucknow Metro serving the state capital Lucknow in Uttar Pradesh, India, Lucknow Metro Rail Corporation, Tunnel Length: 4.0 Km Construction Methodology: NATM/TBM	Lucknow Metro Rail Corporation	Chief Engineer	Ayasa, Lucknow, India	7,700.00	13-02-2016	01-12-2017	India	4000	Supervision (EPC)	1.8	
15	Design and construction Supervision of dedicated, dual track, high speed railway connecting the capital cities of Malaysia and Singapore, Malaysia High Speed Rail Project, Tunnel Length: 8 Km Construction Methodology: NATM/TBM/Drill and Blast	Malaysia High Speed Rail Corporation - MyHSR	Tunnel Expert	Malaysia High Speed Rail Corporation	1,26,000.00	03-12-2017	31-01-2019	Malaysia	4000	Supervision (EPC)	1.161111	



Tunnel Safety Expert
JANARDHANAMVARATHARAJAN

Sno	Work Name	Client	Designation	Employer	Project Cost (Cr)	Start Date	Completion Date	Country	Maximum Individual Length of Tunnel (m)	Nature of assignment	No. of years	Remarks
1	Construction of RCC Water Tank for major and minor cities	Water Supply Board	Project Engineer	Tamilnadu Water Supply and Drainage Board	3,000.00	01-12-1983	01-11-1995	India	0	Supervision (EPC)	11.91667	
2	1. Great World City Office Tower and Podium at Kim Seng Road 2. Parliament Basement Project, Singapore 3. Guthrie House Office and Fifth Ave Condominium at Fifth Ave 4. Heritage View Condominium Project at Dover road 5. Central Grove Condominium Project at Sims Ave	Govt. of Singapore	Safety Engineer	WohHupPte Ltd	2,500.00	01-12-1995	30-11-1999	Singapore	0	Supervision (EPC)	3.997222	
3	Deep Tunnel Sewerage System, Changi Tunnel Contract T01	Changi Tunnel Contract T01	Tunnel Safety Expert/Tunnel Safety Engineer	WohHup - Shanghai Tunnel Engineering JV Singapore	500	01-02-1999	29-02-2000	Singapore	2000	Supervision (EPC)	1.077778	
4	C855- Construction of Buona Vista Interchange Station including Tunnels	LTA - MRT	Tunnel Safety Expert/Tunnel Safety Engineer	WohHup - Shanghai Tunnel Engineering	3,200.00	01-02-2000	31-01-2003	Singapore	4000	Supervision (EPC)	3	
5	2. C852 - Serangoon Interchange Station including Tunnels (LTA - MRT Project)	LTA - MRT	Tunnel Safety Expert/Tunnel Safety Engineer	WohHup - Shanghai Tunnel Engineering - Alpine Mayreder JV -Singapore	2,703.00	01-01-2003	01-02-2006	Singapore	5500	Supervision (EPC)	3.083333	
6	Delhi MRTS projects	DMRC	Tunnel Safety Expert/Tunnel Safety Engineer	VSL India Pvt Ltd, India	1,252.00	01-01-2007	09-10-2009	India	4000	Supervision (EPC)	2.772222	
7	Constructions of Underpass along Chord Road at the Junction of Magadi Road and Chord Road and Rail over bridge at ITC Site at Bangalore for Bangalore Development Authority	Bangalore Development Authority	Tunnel Safety Expert/Tunnel Safety Engineer	SHEQ Consultants	50	01-09-2009	30-08-2011	India	0	Supervision (EPC)	1.997222	
8	Independent Engineer services for Four laning of Quazigund to Banihal section from Km 189.350 to km 204.700 of NH 1A including 2 tunnels (2 lane) of 0.69 km and 8.45 km length on NH-1A on BOT(Annuity) basis in the State of Jammu & Kashmir).	NHAI	General Manager	SHEQ Consultants, Chennai India	1,987.00	01-11-2009	02-09-2011	India	8750	Supervision (HAM)	1.836111	
9	Design, Construction, Development, Finance, Operation and Maintenance of Lakhnadon (Km 547.400) to Seoni (Km 596.750) on National Highway No. 7 (NH-7) in the state of Madhya Pradesh under North - South Corridor (NHDP Phase-II) on Build, Operate Transfer (BOT) (Annuity) Basis - Package No. NS-1/BOT/MP-2	NHAI	General Manager	SHEQ Consultants	200	02-11-2009	30-08-2011	India	0	Supervision (EPC)	1.827778	
10	Constructions of Grade Separator and Rail over bridge at Perambur, Chennai Tamil Nadu	NHAI	General Manager	SHEQ Consultants	50	02-11-2009	30-08-2011	India	0	Execution	1.827778	
11	Independent Engineer services for Four laning of Quazigund to Banihal section from Km 189.350 to km 204.700 of NH 1A including 2 tunnels (2 lane) of 0.69 km and 8.45 km length on NH-1A on BOT(Annuity) basis in the State of Jammu & Kashmir) (Intermittent Input)	NHAI	Tunnel Safety Expert/Tunnel Safety Engineer	SMEC	1,987.00	13-07-2011	12-09-2011	India	8450	Supervision (EPC)	0.163889	
12	Bangalore International Airport Expansion work Mumbai International Airport Director Control Project	Bangalore International Airport Ltd (BIAL)	Team Leader- cum- Senior Safety Auditor	L&T ECC, B&F IC, Chennai India	4,000.00	20-09-2011	15-11-2012	India	0	Supervision (EPC)	1.152778	
13	Direct control of Mumbai International Airport project.	Mumbai International Airport (MIAL)	Safety Engineer	Larsen & Toubro (L&T)	5,500.00	25-12-2012	30-09-2013	India	0	Supervision (EPC)	0.763889	
14	Chennai Metro Rail Project Package UAA-03	CMRL	Tunnel Safety Expert/Tunnel Safety Engineer	Gammon India Limited	1,014.00	01-09-2013	01-12-2016	India	2800	Supervision (EPC)	3.25	
15	Lucknow Metro Project LKCC-06, (Tunnel Length: 4000 m) Project Cost: INR 1200 Cr.	DMRC	General Manager	TATA Projects Limited	1,200.00	30-04-2016	31-01-2019	India	4000	Execution	2.75	
16	Mumbai Line 3 Metro Project UGC-04, (Tunnel Length: 3500 m) Project Cost: INR 1300 Cr.	DMRC	General Manager	TATA Projects Limited	1,300.00	30-04-2016	31-01-2019	India	0	Execution	2.75	
17	Delhi Metro Phase 3 Project CC87, Project Cost: INR 650 Cr.	DMRC	General Manager	TATA Projects Limited	650	30-04-2016	31-01-2019	India	0	Execution	2.75	
18	Ahmedabad MEGA R2 Project; Project Cost: INR 750 Cr.	DMRC	General Manager	TATA Projects Limited	750	30-04-2016	31-01-2019	India	0	Execution	2.75	
19	Delhi Metro Rail Project CC 27 Tunnel Length: 4490 m; Project Cost: INR 1252 Crore	DMRC	Tunnel Safety Expert/Tunnel Safety Engineer	L&T Heavy Civil Infra	1,252.00	01-12-2016	31-01-2019	India	4490	Supervision (EPC)	2.166667	



Senior Geo-technical Expert
Rocky Tay

Sno	Work Name	Client	Designation	Employer	Project Cost (Ct)	Start Date	Completion Date	Country	Maximum Individual Length of tunnel (m)	Nature of assignment	No. of years	Remarks
1	The Prince of Wales Hospital Project	ArchSD Department, Hong Kong Government	Resident Engineer	Technic Construction Co., Ltd	225	01-06-1979	31-12-1982	Hong Kong	0	Supervision (EPC)	3.583333	
2	Tate's Cairn Tunnel Project	Highways Department, Hong Kong Government	Design Engineer	Wilbur Smith & Associates	200	20-04-1984	13-04-1986	Hong Kong	0	DPR	1.980556	
3	New Territories Circular Road Improvements - Au Tau to Fan Kam Road, Phases 2, 3 & 4	Highways Department, Hong Kong Government	Design Engineer	Wilbur Smith & Associates	200	01-06-1984	14-06-1987	Hong Kong	0	DPR	3.036111	
4	New Territories Circular Road Improvements - Au Tau to Fan Kam Road, Route 2 Phase 3 Lok Ma Chau to Fairview Park Section	Highways Department, Hong Kong Government	Geotechnical Engineer	Wilbur Smith & Associates	200	15-06-1986	31-12-1988	Hong Kong	0	Supervision (EPC)	2.544444	
5	Nethersole Pamela Youde Hospital,	ArchSD Department, Hong Kong Government	Resident Engineer	Freeman Fox & Partners Limited	400	01-01-1989	12-03-1992	Hong Kong	0	Supervision (EPC)	3.197222	
6	Salisbury Garden, Tsim Sha Tsui	New World Development Co., Ltd.	Resident Engineer	Acer Consulting Limited / Hyder Consulting Limited	170	13-03-1991	02-08-1996	Hong Kong	0	Supervision (EPC)	5.386111	
7	Lai King Station & Tunnels	MTRC	Geotechnical Engineer	Acer Consulting Limited / Hyder Consulting Limited	220	03-08-1996	05-11-1997	Hong Kong	2000	DPR	1.255556	
8	KCRC DD400 West Rail Sham Shui Po Section	MTRC	Design Engineer	Acer Consulting Limited / Hyder Consulting Limited	5,000.00	06-11-1997	17-07-2003	Hong Kong	0	Supervision (EPC)	5.697222	
9	Feasibility Study of Common Utility Enclosure	Highways Department, Hong Kong Government	Deputy Project Manager	Acer Consulting Limited / Hyder Consulting Limited	50	27-06-1999	22-03-2002	Hong Kong	0	DPR	2.736111	
10	Blackhill Tunnels Tsuen Kwan O Extension	MTRC	Geotechnical Engineer	Acer Consulting Limited / Hyder Consulting Limited	500	17-09-2000	04-07-2003	Hong Kong	2000	DPR	2.797222	Type of tunnel can not be inferred from the information provided. Therefore, this project is not being considered in criteria where tunnel work is required.
11	Lai King Station & Tunnels	MTRC	Project Manager	Hyder Consulting Limited	300	03-03-2005	08-05-2007	Hong Kong	2000	Supervision (EP C)	2.180556	
12	Metro Line 5 Immersed Tube Tunnel	Guangzhou Metro Co., Ltd	Geotechnical Engineer	Hyder Consulting Limited	200	23-08-2005	09-02-2006	China	2500	DPR	0.461111	
13	Hong Kong Zhuhai Macao Bridge Main Bridge Section & Tube Tunnel,	HPDI	Project Manager	Hyder Consulting Limited	120	18-09-2005	23-01-2007	China	6000	Supervision (EP C)	1.347222	
14	ChiFeng Cable Stayed Bridge	TUCDI	Project Manager	Hyder Consulting Limited	400	15-10-2005	31-07-2008	China	0	Supervision (EP C)	2.794444	No tunnel work
15	Zhou Tou Zui immersed Tube Tunnel	Guangzhou Municipal Department	Project Manager	Hyder Consulting Limited	500	23-11-2006	12-04-2007	China	800	DPR	0.386111	
16	Jizhao Cable Stayed Bridge	TUCDI	Deputy Project Manager	Hyder Consulting Limited	350	23-12-2006	15-06-2007	China	0	DPR	0.477778	No tunnel work
17	Design and Construction of Remaining Engineering Infrastructure Works for Pak Shek Kok Development	Civil Engineering Department, Hong Kong Government	Project Manager	Acer Consulting Limited / Hyder Consulting Limited	600	02-07-2007	11-08-2011	Hong Kong	0	Supervision (EP C)	4.108333	No tunnel work
18	Study for Meeting Maintenance Requirements for the Shenzhen Section of the Hong Kong Shenzhen Western Corridor	Highways Department, Hong Kong Government	Project Manager	Hyder Consulting Limited	7,000.00	21-08-2007	30-08-2008	Hong Kong	0	DPR	1.025	No tunnel work
19	Central Kowloon Route and Widening of Gascoigne Road Flyover - Feasibility Study	Highways Department, Hong Kong Government	Deputy Project Manager	Hyder Mott Meinhart JV	15,000.00	16-09-2007	15-09-2009	Hong Kong	0	DPR	1.997222	No tunnel work
20	North Middle Ring Road Cable Stayed Bridge	Taiyuan Municipal Department	Project Manager	Hyder Consulting Limited	480	23-10-2007	30-06-2011	China	0	DPR	3.686111	No tunnel work
21	Airport Road Cable Stayed Bridge	Ningbo Municipal Department	Project Manager	Hyder Consulting Limited	500	03-06-2008	17-09-2010	China	0	Supervision (EP C)	2.288889	No tunnel work
22	Kangbasi Bridge No. 4, Eerdos, Inner Mongolia	Erros Municipal Department	Project Manager	Hyder Consulting Limited	420	27-07-2008	14-04-2009	China	0	DPR	0.713889	No tunnel work



23	Penang Second Crossing Bridge	HPDI	Project Manager	Hyder Consulting Ltd./Meinhardt Infrastructure & Environment Limited	1,200.00	13-09-2008	20-07-2012	Malaysia	0	DPR	3.852778	No tunnel work
24	Tseung Kwan O Further Development – Town Center South and Site Formation and Infrastructure Works	Civil Engineering Department, Hong Kong Government	Project Manager	Meinhardt Infrastructure & Environment Limited	600	12-02-2011	05-05-2015	Hong Kong	0	Supervision(EP C)	4.230556	No tunnel work
25	Consultancy Services for the Temporary Work and Permanent Work Designs Diamond Hill to Kai Tak Tunnel	Chun Wo – SELL Joint Venture	Team Leader	Meinhardt Infrastructure & Environment Limited	1,500.00	01-06-2011	31-01-2019	Hong Kong	785	Supervision(EP C)	7.666667	Tunnel length less than 1500 m.
26	Architectural and Engineering Consultancy Services for proposed Downtown Line Stage 3 (DTL3)	Land Transport Authority of Singapore	Project Manager	Meinhardt Infrastructure & Environment Limited	5,584.48	01-06-2011	27-06-2017	Singapore	9000	Supervision(EP C)	6.072222	
27	Shenzhen Metro Line-4 Phase-2.	MTR Corporation Limited	Team Leader	Meinhardt Infrastructure & Environment Limited	1,200.00	01-06-2011	31-12-2011	China	5000	DPR	0.583333	
28	Contract for Design & Construction of Tan Kah Kee Station and Tunnels for Downtown Line Stage 2	SK E&C Singapore	Team Leader	Meinhardt Infrastructure & Environment Limited	3,000.00	01-06-2011	31-07-2017	Singapore	1500	Supervision(EP C)	6.166667	Tunnel length = 1500 m.
29	South Island Line Ocean Park and Wong Chuk Hang Stations	MTRC	Deputy Project Manager	Meinhardt Infrastructure & Environment Limited	900	09-07-2012	21-05-2015	Hong Kong	0	Supervision(EP C)	2.866667	
30	District Cooling System (DCS) at Kai Tak Development (KTD) Phase III (Package A)	Electrical and Mechanical Services	Project Manager	Meinhardt Infrastructure & Environment Limited	1,000.00	23-06-2013		Hong Kong	0	Supervision(EP C)	113.4806	No tunnel work
31	Hiram's Highways Stage 1	Highways Department, Hong Kong	Project Manager	Meinhardt Infrastructure & Environment Limited	1,500.00	02-09-2013		Hong Kong	0	Supervision(EP C)	113.6722	No tunnel work
32	Central Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	Highways Department, Hong Kong Government	Deputy Project Manager	Meinhardt Infrastructure & Environment Limited	700	09-09-2013	19-11-2015	Hong Kong	1500	DPR	2.194444	Tunnel length = 1500 m.
33	Reconstruction & Rehabilitation of Kai Tak River	Drainage Services Department, Hong Kong Government	Project Director	Meinhardt Infrastructure & Environment Limited	800	09-10-2013	30-08-2015	Hong Kong	0	DPR	1.891667	No tunnel work
34	Tuen Mun – Chek Lap Kok Link – Northern Connection Toll Plaza and Associated Works	Highways Department, Hong Kong Government	Manager – Business Development	Meinhardt Infrastructure & Environment Limited	5,000.00	04-11-2013	02-05-2014	Hong Kong	0	DPR	0.494444	No tunnel work
35	Design & Build Contract No. SSAS01(PWP No. 77MM) Centre of Excellence in Pediatrics (Children's Hospital) in Kai Tak Development	ArchSD, Hong Kong Government	Design Engineer	Meinhardt Infrastructure & Environment Limited	10,000.00	11-09-2014	22-12-2015	Hong Kong	0	DPR	1.280556	No tunnel work
36	Remaining Midfield Development Detailed Design Consultancy	Airport Authority, Hong Kong Government	Deputy Project Manager	Meinhardt Infrastructure & Environment Limited	2,000.00	13-10-2014		Hong Kong	0	DPR	114.7861	No tunnel work
37	Long Span Footbridges at Cheung Sha Wan Wholesale Food Market Sites 3 & 5 and at Choi Yuen Road	Housing Department, Hong Kong Government	Manager – Business Development	Meinhardt Infrastructure & Environment Limited	300	23-10-2014	02-05-2015	Hong Kong	0	DPR	0.525	No tunnel work
38	Pulau Muara Besar Bridge	HPDI	Project Manager	Meinhardt Infrastructure & Environment Limited	900	05-11-2014	03-12-2016	Brunei Darussalam	0	Supervision(EP C)	2.077778	No tunnel work
39	Technical Study on Revamping Works of Administration Building at Stonecutters Island Sewage Treatment Works	Drainage Services Department, Hong Kong Government	Project Manager	Meinhardt Infrastructure & Environment Limited	300	17-03-2015	31-01-2019	Hong Kong	0	DPR	3.872222	No tunnel work
40	Vava'u International Airport Upgrade Study	HPDI	Project Manager	Meinhardt Infrastructure & Environment Limited	500	02-05-2015	23-09-2015	Tonga	0	DPR	0.391667	No tunnel work
41	Atiu Island Airport in the Cook Islands	HPDI	Project Manager	Meinhardt Infrastructure & Environment Limited	450	02-05-2015	23-09-2015	Cook Islands	0	DPR	0.391667	No tunnel work
42	East Coast Rail Link between Batek Kalo and Port Klang	Malaysia Rail Transit Co., Ltd.	Project Manager	Meinhardt Infrastructure & Environment Limited	20,000.00	05-05-2016	31-01-2019	Malaysia	5000	Supervision(EP C)	2.738889	Nature of assignment is Supervision but the key personnel also have experience in detail design in this project as mentioned in the column 'duties and responsibilities'. Hence, considered in b(ii).
43	MRTS Tunnel Project	KVMRT Corporations	Project Manager	Meinhardt Infrastructure & Environment Limited	3,000.00	19-05-2016	31-01-2019	Malaysia	13000	DPR	2.7	
44	Detailed Design of Manila Bus Rapid Transit (BRT); Binondo Intramuro Bridge and Estrella Pantaleon Bridge crossing the Pasig River in City Centre of Manila.	HPDI	Project Manager	Meinhardt Infrastructure & Environment Limited	12,000.00	09-11-2017	31-01-2019	Philippines	0	Supervision(EP C)	1.227778	No tunnel work



Senior Geologist

Pankaj Punetha

Sno	Work Name	Client	Designation	Employer	Project Cost (Cr)	Start Date	Completion Date	Country	Maximum Individual Length of tunnel (m)	Nature of assignment	No. of years	Remarks
1	Construction Supervision of Chamera Stage I 540 MW HEP, Dalhousie, Himachal Pradesh including Geological and Geotechnical works of Underground Power house complex, HRT and TRT	NHPC	Deputy Manager/ Senior Engineer	NHPC	2,114.02	31-10-1987	30-09-1993	India	6414	Supervision (EP C)	5.916667	
2	Preparation of DPR of Dhauliganga HEP, Dharchula including Geological and Geotechnical Investigation	NHPC	Geologist	NHPC	1,761.90	01-01-1997	30-09-2003	India	5400	DPR	6.747222	
3	Preparation of DPR of Parbati-II HEP, 800 MW	NHPC	Geologist	NHPC	3,919.60	01-01-2000	30-09-2000	India	31520	DPR	0.747222	
4	Preparation of DPR of Chamera-III HEP including Geological and Geotechnical Investigation	NHPC	Geologist	NHPC	2,132.21	01-01-2003	31-12-2004	India	15970	DPR	2	
5	Preparation of DPR of Uri-II HEP including Geological and Geotechnical Investigation	NHPC	Geologist	NHPC	2,290.02	01-01-2003	31-12-2004	India	4280	DPR	2	
6	2000 MW Subhansiri Lower	NHPC	Geologist	NHPC	10,660.00	01-10-2003	31-08-2006	India	2000	Supervision (EP C)	2.916667	
7	Lower Demwe Hydro Electric Project, 1750 MW.	Athena Demwe Power Private Limited	Geologist	Energy Infratech Pvt Ltd	13,145.00	01-01-2007	31-05-2010	India	3200	DPR	3.416667	
8	Kholongchu HE Project	Satujal Vidyut Nigam SIVNL	Geologist	Energy Infratech Pvt Ltd	3,736.00	01-12-2009	31-07-2011	Bhutan	15770	DPR	1.666667	
9	2x50 MW Malana-II Hydro Electric Project	Everest Power Private Ltd	Geologist	Energy Infratech Pvt Ltd	860	01-06-2010	30-05-2012	India	4980	Supervision (EP C)	1.997222	
10	6x200 MW Teesta -III Hydro Electric Project	Teesta Urja Ltd	Geologist	Energy Infratech Pvt Ltd	11,382.00	01-06-2012	30-09-2015	India	13800	Supervision (EP C)	3.330556	
11	Mangdechhu Hydroelectric Project	Mangdechhu Hydroelectric Project	Chief Geologist	Mangdechhu Hydro Electric Project	3,382.00	01-12-2012	31-07-2017	Bhutan	13500	Supervision (EP C)	4.666667	
12	Kiba Hydroelectric Project	CAIDC	Chief Geologist	Energy Infratech Pvt Ltd	9,654.00	01-03-2018	31-01-2019	Uganda	2100	DPR	0.916667	

Tunnel ventilation cum E&M Expert

Neeraj Sahu

Graduation
 Bachelors of engineering in automobile engineering, which is not as per requirement of RPP criterion i.e. (i) Graduate in Electrical/Mechanical Engineering. Therefore as per clause 3.4 (iv) of section 2 of the RPP document i.e. If the Key Personnel does not fulfill the minimum academic qualification (as mentioned in Enclosure-8 of TOR of RPP), the overall score of his CV will be evaluated as zero.

Sno	Work Name	Client	Designation	Employer	Project Cost (Cr)	Start Date	Completion Date	Country	Maximum Individual Length of tunnel (m)	Nature of assignment	No. of years	Remarks
1	Design and Construction of Broad Gauge Railway line between Udhampur - Katra in connection with Udhampur - Srinagar - Baramulla Rail Link Project under Indian Railways (Northern Section) in the state Jammu and Kashmir, Tunnel Length: 5.65 Km.	Northern Railways	Tunnel Ventilation Expert	M/s. Patel Engineering Ltd	250	01-09-1997	31-10-1998	India	0	Supervision (EP C)	1.166667	
2	Preparation of Design of Kolkata Metro Line-1 in the state of West Bengal, Underground metro having total Tunnel length of 6500 meter	KMRC	Tunnel Ventilation Expert	Hindustan Construction Company Ltd	200	01-11-1998	31-01-2000	India	6500	DPR	1.25	
3	Preparation of Detailed Design of 4.3 Km of Delhi Metro Rail Corporation Route from Kashmere Gate to Vishwa Vidyalaya at New Delhi, Package-MC1A, Tunnel Length: 4.3 Km	DMRC	Tunnel Ventilation Expert	Hindustan Construction Company Ltd	900	01-05-2000	31-01-2002	India	4300	DPR	1.75	
4	Construction Supervision of Delhi Metro Rail Corporation Project Route from Rajiv Chow-Chandni Chowk - Chawri Bazar - New Delhi in the state of Delhi, Package-MC1B, Tunnel Length: 4.6 Km	DMRC	Tunnel Ventilation Expert	IMCC (Dywidag-IA&T&C&Samsung-Ircon-Shimizu JV).	1,200.00	01-02-2002	31-05-2004	India	4600	Supervision (EP C)	2.333333	
5	Preparation of Design and Construction of Tunnel from km 142 to km 152 (Zone IV) on Udhampur-Srinagar-Baramulla New BG Railway Line (J&K). Tunnel Length: 4.8 Km	Northern Railways	Tunnel Ventilation Expert	Hindustan Construction Co. Ltd	300	01-06-2004	31-07-2006	India	4800	DPR	2.166667	
6	Construction and Supervision of T-80 USB Rail Link Project in the state of Jammu and Kashmir, Tunnel Length: 11.3 Km.	IRCON	Tunnel Ventilation Expert	Hindustan Construction Co. Ltd	400	01-08-2006	31-08-2007	India	11300	Supervision (EP C)	1.083333	
7	Preparation of Design of Delhi Metro Rail Project from Central Secretariat -Qutub Minar Corridor (including 4 stations Race course, Jorbagh, INA and AIIMS) in the state of Delhi, Tunnel Length: 8 Km	DMRC	Tunnel Ventilation Expert	CEC Ltd	1,500.00	01-09-2007	31-10-2008	India	8000	DPR	1.166667	
8	Construction Supervision of Delhi Metro Rail Project from Central Secretariat -Qutub Minar Corridor (including 4 stations Race course, Jorbagh, INA and AIIMS) in the state of Delhi, Tunnel Length: 8 Km.	DMRC	Tunnel Ventilation Expert	CEC Ltd	1,500.00	01-11-2008	31-10-2010	India	8000	Supervision (EP C)	2	
9	Construction and Supervision of Udhampur-Srinagar-Baramulla Railway Project, Zone VB, Tunnel No. 5B, Tunnel length: 10 Km, Dia 7.6m in the State of Jammu and Kashmir	Northern Railways	Tunnel Ventilation Expert	Hindustan Construction Co. Ltd	600	01-11-2010	30-06-2012	India	10000	Supervision (EP C)	1.663889	
10	Construction and Supervision of Delhi Metro Rail Corporation Project from Balaji to Lalpat Nagar in the state of Delhi, 4.9 Km Two Way Tunnel	DMRC	Tunnel Ventilation Expert	Pratibha Industries Ltd.	1,000.00	01-07-2012	31-10-2014	India	4900	Supervision (EP C)	2.333333	
11	Preparation of Design of Doha Metro Rail Project (Gold Line Metro) in the Country of Qatar, Tunnel Length: 11.2 KM.	Qatar Metro Rail	Tunnel Ventilation Expert	M/s ALYSJ	1,800.00	01-11-2014	30-11-2015	Qatar	11200	DPR	1.080556	
12	Construction Supervision of Doha Metro Rail Project (Gold Line Metro) in the Country of Qatar, Tunnel Length: 11.2 KM	Qatar Metro Rail	Tunnel Ventilation Expert	M/s ALYSJ	1,800.00	01-12-2015	31-10-2017	Qatar	11200	Supervision (EP C)	1.916667	



Contract Specialist
Sanjeev Kumar Agarwal

Sno	Work Name	Client	Designation	Employer	Project Cost (Cr)	Start Date	Completion Date	Country	Maximum Individual Length of tunnel (m)	Nature of assignment	No. of years	Remarks
1	Construction of High rise commercial building (G+15) project Somdutt Plaza at Kanpur, Uttar Pradesh (Input Provided: 19 Months)	Somdutt Builders Limited	Project Engineer	Somdutt Builders Limited	15	14-06-1989	30-12-1990	India	0	Other works	1.544444	Not considered in any criterion as work of contract management is not performed.
2	Construction of 2/4-lane of 84 Km long East Coast Road Project in the State of Tamil Nadu ADB Funded project.	Tamil Nadu State PWD	Senior Engineer	A.L. Sudershan Construction Company Ltd.	120	02-01-1991	30-12-1994	India	0	Execution	3.994444	
3	Preparation of Feasibility Report 4-lane of 600 km of Toll Expressway in the State of Punjab	Punjab State PWD, Govt. of Punjab	Senior Engineer	MPG Engineering Technologies Pvt. Ltd./ Sir Alexander and Glibbe	1,800.00	02-01-1995	30-12-1996	India	0	Feasibility and Preliminary study	1.994444	Considered in similar capacity as 'Sr. contract engineer' mentioned in description of duties.
4	Construction Supervision of 4 packages of Intermediate Lane of approximately 100 kms of Roads, Cross Drainage Works, minor and major bridges (approx. 300m lengths) in Bihar Plateau Development Project (BPDF) in Bihar World Bank Aided Project. (Input Provided: 32 Months)	REO, Bihar Government	Assistant Resident Engineer	Scott Wilson Kirkpatrick, U.K.	20	02-01-1997	27-08-1999	India	0	Supervision (EP C)	2.652778	
5	Construction Supervision of 2-lane of 142 km of Andhra Pradesh State Highways Project, Phase II, (APSH-7), Tallada - Devarapalli road of strengthening and Widening of flexible pavement World Bank Aided Project. (Input Provided: 23 Months)	R&B, Govt. of AP	Quantity Surveyor	Scott Wilson Kirkpatrick, U.K.	120	01-09-1999	30-07-2001	India	0	Supervision (EP C)	1.913889	Considered in similar capacity as 'Contract Specialist' mentioned in description of duties.
6	Construction Supervision of 4/6 lane of 69 km of divided carriageway of Kavali to Ongole Km 222/0-Km 291/0 of NH-5 (Golden Quadrilateral) in the State of Andhra Pradesh.	National Highways Authority of India	Quantity Surveyor	SECON	251	01-01-2002	30-07-2004	India	0	Supervision (EP C)	2.580556	
7	Construction Supervision of 4-lane of 206 km of Gurgaon-Amer Section Km 42/0-Km 248/0 of NH-8, In Haryana and Rajasthan State (Input Provided: 9 Months)	National Highways Authority of India	Quantity Surveyor	Artefact Projects Pvt. Ltd.	71	01-08-2004	30-04-2005	India	0	Supervision (EP C)	0.747222	
8	Construction for 4-laning of 51 km of Agra to Tundia section on NH-2 in the State of Uttar Pradesh World Bank funded project.	National Highways Authority of India	Deputy Project Manager	Oriental Structures Pvt. Ltd., New Delhi	367.49	02-05-2005	29-11-2005	India	0	Supervision (EP C)	0.575	
9	Upgradation of 4-lane of 144 km of Punjab State Road Sector Project, World Bank funded	PRBDB	Contract Specialist	Egis Beom International S.A., France	430	01-12-2005	30-12-2006	India	0	Supervision (EP C)	1.080556	
10	Procurement Agent Services, Poverty Alleviation Project- assisting the Government of Vanuatu in procuring, administering and managing the consultants and contractors for the Millennium Challenge Account Program of Vanuatu.	Govt. of Vanuatu	Contract Expert	Egis Beom International S.A., France	140	03-07-2006	02-08-2006	Vanuatu	0	Other works	0.080556	This is not a major road/highway project. Therefore considered only in total professional experience.
11	Construction Supervision of 2-laning of 75 km of Kabul Urban Reconstruction Project - Rehabilitation Project Kabul, Afghanistan (World Bank funded)	Ministry of Urban Development	Contract Specialist	Louis Berger Inc., USA	121.5	01-01-2007	30-12-2007	Afghanistan	0	Supervision (EP C)	0.997222	
12	Universal Brand Theme Park in Dubai, United Arab Emirates	Tatweer Dubai LLC, Dubai Holding, Dubai	Senior Quantity Surveyor	Tatweer Dubai LLC, Dubai	1,700.00	01-01-2008	27-02-2009	United Arab Emirate	0	Other works	1.155556	This is not a major road/highway project. Therefore considered only in total professional experience.
13	Barwa Al Khor Urjuan Development, Doha, Qatar	Barwa Real Estate Company	Contract Specialist	Quality International, Qatar	600	01-03-2009	30-08-2009	Qatar	0	Other works	0.497222	This is not a major road/highway project. Therefore considered only in total professional experience.
14	Independent Consultancy Services for 6-laning of 102 km of Bagodara - Watanan - Tarapur - Vasad Road on SH-8 Km 0/0 to 101/9 in the State of Gujarat (Input Provided: 12 Months)	GSRDC, Gujarat	Senior Contract Specialist	Egis International S.A., France - Egis India Consulting Engineers Pvt. Ltd.	884	01-09-2009	31-07-2013	India	0	DPR	3.916667	Nature of assignment has been defined as DPR and for the same the project cost has been mentioned as 884 Cr. This project is not considered in the criterion i.e. Experience of contract management of major roads/ highway projects over Rs 500 crore including experience of handling variation orders, claims of the contractor; as it is not clear from the information provided that the cost mentioned is for DPR or for civil work.



Instrumentation & Control (SCADA) Expert

Karamvir Singh

Sno	Work Name	Client	Designation	Employer	Project Cost (Cr)	Start Date	Completion Date	Country	Medium Individual Length of tunnel (m)	Nature of assignment	No. of years	Remarks
1	Technical support	Asian Alloys LTD	Electrical Engineer	Asian Alloys LTD	2	01-12-1995	01-12-1996	India	0	O & M	1	Experience certificate not uploaded therefore not considered in any criterion.
2	Engineering	JAMISON FOODS INC.	Electrical Engineer	JAMISON FOODS INC.	4.5	01-11-1997	01-11-1997	USA	0	O & M	0	Experience certificate not uploaded therefore not considered in any criterion.
3	Electrical Engineering /Field Service PECO Energy - Wireless Experience USA	PECO Energy, USA	Project Engineer	Automated Control Concepts Inc (ACC), Neptune, NJ.	124	08-03-1999	06-02-2002	USA	0	Supervision(PP P)	2.911111	
4	Technical support for software installation, USA	Various Municipalities across USA	Assistant Resident Engineer / Technical Officer	Danish Hydraulic Institute (DHI)	322	03-09-2002	29-09-2003	USA	0	Other works	1.072222	
5	TECHNICAL CUSTOMER SERVICE	CITIZENS BANK	Technical Officer	CITIZENS BANK	7	01-03-2003	09-07-2004	USA	0	O & M	1.355556	
6	Commissioning of 70 substations, substation (SCADA) commissioning, Lead Substation Design, and Surveillance and Security System for 230 KV Transmission Substations, USA	International Transmission Company (ITC Transmission)	Instrumentation and Control (SCADA) Expert	Patrick Engineering Livonia	309	19-07-2004	30-12-2006	USA	0	DPR	2.447222	
7	Commissioned 3 wind farm substations Buffalo Gap Texas Wind Farm Substation (SCADA) USA	AES Wind Generation	Instrumentation and Control (SCADA) Expert	MSE POWER SYSTEMS, INC	242	01-01-2007	09-03-2008	USA	0	Supervision(PP P)	1.188889	
8	Wind Farm (524 MW) Substation (SCADA) System Integration, USA	AES Wind Generation	Instrumentation and Control (SCADA) Expert	MSE POWER SYSTEMS, INC	242	01-01-2007	09-03-2008	USA	0	Supervision(PP P)	1.188889	
9	Intelligent Electronic Devices (IED Devices), USA	AES Wind Generation	Instrumentation and Control (SCADA) Expert	MSE POWER SYSTEMS, INC	242	01-01-2007	09-03-2008	USA	0	Supervision(PP P)	1.188889	
10	SCADA System Integration: Surveillance and Security System for Smart buildings, USA	Public Service Company of New Hampshire	Senior Engineer	Additional Technical Support	231	11-03-2008	04-02-2009	USA	0	Other works	0.897222	
11	SCADA commissioning 27 Substations (120KV/ 320KV and Surveillance and security system for critical and non-critical infrastructure, USA	Public Service of New Hampshire USA	Instrumentation and Control (SCADA) Expert	Public Service of New Hampshire (PSNH)	231	05-02-2009	10-02-2010	USA	0	DPR	1.013889	
12	ABB Substation SCADA system design	ABB Inc., USA	Instrumentation and Control (SCADA) Expert	ABB Inc Raleigh North Carolina (USA)	262	02-02-2010	10-10-2012	USA	0	DPR	2.688889	
13	Shri Shashi 1.5 MW Project Hydro Electric Power Pvt Ltd Near Anni at Shamshar Himachal Pradesh	Shri Shashi 1.5 MW Project Hydro Electric Power Pvt Ltd	Advisor	Kelwin International	30	01-12-2013	06-08-2017	India	0	Supervision(PP P)	3.680556	
14	Smart City Chandigarh - Portable Water SCADA Project, India	Municipal Corporation of Chandigarh	Instrumentation and Control (SCADA) Expert	EGIS India Consulting Engineers Private Limited	20	07-08-2017	31-01-2019	India	0	DPR	1.483333	
15	Smart City Chandigarh-Waste Water SCADA Project	Municipal Corporation of Chandigarh	Instrumentation and Control (SCADA) Expert	EGIS India Consulting Engineers Private Limited	20	07-08-2017	31-01-2019	India	0	DPR	1.483333	
16	Smart City Chandigarh - Surveillance and Security System for Water Works Project	Municipal Corporation of Chandigarh	Instrumentation and Control (SCADA) Expert	EGIS India Consulting Engineers Private Limited	100	07-08-2017	31-01-2019	India	0	DPR	1.483333	



		<i>Km) or more of similar category for which RFP is invited". Hence, on the basis of above mentioned facts bidder is considered as Non-Responsive.</i>
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5.1.1 (C) The following additional clarifications required from the following bidder for the subject project:-

S. No.	Name of the bidder	Clarification Required
1.	M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	A). In Bank Guarantee submitted by the Bidder, following para are extra:- - As per prescribed format of BG, bidder has added some extra content which needs to be deleted i.e. 1. "This guarantee shall be governed by and construed in accordance with Indian Laws and subject to exclusive Jurisdiction of Courts in India". - In 2nd line of para 6 i.e. Amount of Bid security has been mentioned as INR 2, 00,000 (Indian Rupees Two Lakhs & 00/100 only), where '& 00/100', which needs to be deleted. Bidder is required to submit the amendment for the same.
2.	M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.	The bidder i.e. M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd. has submitted two Bank Guarantee for same amount and same BG number mentioning name of the bidder as "M/s M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd." in first BG and "Infrastructure Consultants Pvt. Ltd." in second BG. Please clarify.
3.	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	While evaluating the key personnel we have found that there is mismatch in the names of the key personals between the names mentioned on infracon sheet and the names as mentioned in the qualification degree. These are the following key personnel who have maimatch in the names:- A. Tunnel Design Engineer- 'Jaime Otazua' as mentioned on infracon sheet and 'Don Jaime Otazua Font' as mentioned in qualification degree. B. Sr. Geotechnical Engineer-'Konstantinos Slergiopoulos' as mentioned on infracon sheet and 'Constantinos B. Slergiopoulos' as mentioned in qualification degree. C. Tunnel safety Expert- 'Shamsha Ali' as mentioned on infracon sheet and 'Shamshe Ali' as mentioned in qualification degree. Please clarify this mismatch of names.
4.	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.	While evaluating the key personnel we have found that there is mismatch in the names of the key personals between the names mentioned on infracon sheet and the names as mentioned in the qualification degree. These are the following key personnel who have maimatch in the names:- A. Tunnel Safety Expert - 'JANARDHANAMVARATHARAJAN' as



		mentioned on infracon sheet and 'V. Janardhanam' as mentioned in qualification degree. Please clarify this mismatch of names.
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Name of the Project

"Construction, Operation and Maintenance of 2-lane Bi-Directional Silkyara Bend –Barkot Tunnel with escape passage including approaches on Dharasu-Yamunotri section between Ch. 25.4 km and Ch. 51.0 km falling along NH-134 (old NH-94) in the State of Uttarakhand"

Final Comparative Technical Evaluation Score.

S. No.	Name of Bidder	Relevant Experience for the assignment	Qualifications and competence of the key staff for the assignment	Total		Rank of the Firm	whether the Technical Responsive Applicant/Bidder Eligible for opening of Financial proposal
		Assessed	Assessed	Assessed	100		
		25	75				
1/4	M/s Sysstra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	24.50	45.99	70.49		3	Non-Responsive**
2/4	M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.	Non-Responsive					
3/4	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	24.50	68.93	93.43		1	Responsive
4/4	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.	24.00	53.88	77.88		2	Responsive

Note ****(More than 3 CV i.e. (Resident cum Tunnel Excavation Expert, Tunnel Design Engineer, Tunnel Safety Expert, Sr. Geotechnical Expert, Sr. Geologist, Tunnel ventilation Cum E&M expert, Instrumentation & Control (SCADA) Expert) scores less than 75% marks, therefore the proposal shall be considered Non – Responsive as per Clause 3.4 (iv) (f) of RFP. Hence bidder has considered non-responsive.)**



6. Recommendation:

Based on the assessment carried out herein below 2 firms/Applicants/Bidders are qualifying, as per the detailed mentioned below:

S.No of Proposal	Name of Firm	Total	Remarks/ Rank	Responsive/Non-Responsive
1/4	M/s Systra S.A. in association with PEMS Engineering Consultants Pvt. Ltd.	70.49	3	Non-Responsive*
2/4	M/s AYESA Ingenieria Y Arquitectura S.A.U. (Ayesa) In association with SA Infrastructure Consultants Pvt. Ltd.	Non-Responsive		
3/4	M/s TPF Getinsa Euroestudios S.L. in association With M/s Rodic Consultants Pvt. Ltd. (RODIC)	93.43	1	Responsive
4/4	M/s Energy Infratech Private Limited in association with Meinhardt Singapore PTE. Ltd.	77.88	2	Responsive

As per the Stage-I and stage –II evaluation attached as annexure –“II” (Relevant experience for the assignment) and (Qualifications and competence of the key staff for the assignment) final summary score of the Applicant/Bidders. (As per Clause 5.1 of Data Sheet of RFP)

Note: - * The CVs of the applicant firm have been evaluated and it is noted that CVs of Resident Engineer cum Excavation Specialist (0), Tunnel Safety Expert (62.5), Tunnel Design Engineer (69), Senior Geotechnical Expert (45), Senior Geologist (74) and Instrumentation & Control (SCADA) Expert (45) score less than 75% marks. As per clause 3.4(iv)(f) of RFP, ***“In case more than 3 CVs score less than 75% or Team Leader cum Highway Engineer scores less than 75% marks, the proposal shall be considered non- responsive”.*** Therefore, above mentioned fact bidder has considered as non-responsive.



7. Conflict of interest of Contractor: -

Our scope of work is limited to the evaluation of the technical proposals, wherein consultant firms mentioned above have been considered to be Responsive for the opening of financial proposals. However, Authority's attention is drawn to the provisions of RFP Document, whereby it is required to ascertain the fact that there has been no conflict of interest among the short listed bidders before proceeding for the opening of financial proposals.

Assuring you our best professional services at all times.

Thanks & Regards,

For RAJ HAR GOPAL & CO.
Chartered Accountants


Gopal Krishan Gupta
Partner

