

**OFFICE OF THE**  
**EXECUTIVE ENGINEER, PROVINCIAL HIGHWAY**  
**DIVISION HYDERABAD**

NO: TC/G-55/ 3237 of 2026

Dated: 16 / 03 /2026

**REQUEST FOR PROPOSAL (RFP) (Through EPADS)**

1. The Executive Engineer, Provincial Highway Division, Hyderabad (hereinafter called "Procuring Agency") now invites proposal to provide the following Engineering Consultancy Services. More details on the services are provided in the Terms of Reference.

**Survey Study / Detailed Engineering Design & Drawings, Preparation of Detailed Working Estimates, BOQ, / PC-I(s) Modified / Revised PC-I and Tender / Bidding Documents / Geotechnical / Soil Investigation Study and preparation of detail feasibility of following scheme.**

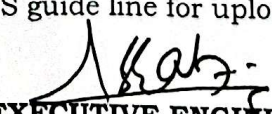
Construction of New 4-Lane Highway Bridge over River Indus between Hyderabad and Kotri

2. Eligible consulting firms (Consultants) are invited to upload E-bid technical and financial proposal in accordance with RFP Document. It is intended that part of the proceeds of Government of Sindh's funding will be applied to eligible payments under the Consultancy Contract for above project. The services are invited under Rule-72(3) of SPPRA Rules 2010 (amended upto date).
3. This Request for Proposal (RFP) has been addressed to the PEC registered Consultants / JV Partners / Associated Firms registered with Pakistan Engineering Council renewal upto June 2026 with (Project Profile Code # 1215 and Services Codes 0511, 0518, 0532 and 0543) and Federal Board of Revenue (FBR) for Income Tax, Sales Tax and Sindh Revenue Board, who are interested to be considered for the assignment should submit information as per formats attached with this RFP document.

Firms are required to support their experience specifically in detailed engineering drawing & design of Pre-stressed Bridge(s) over Indus River. Following information should also be upload with E-Bid:


- Name, address, phone, fax numbers & Email address of the firm.
- Yearly turnover of the firm for the last five years including income statement and balance sheets.
- Average Annual Financial Turn-over not less than equivalent cost of the scheme / project during last five years.
- General experience of the firm in last fifteen years or so and list of ongoing projects in this respect including name of client and value of assignment with main month inputs to be provided separately.
- Organization of the firm, list of the permanent technical staff (both for lead and associate firm) with qualification, experience.
- Income tax status of the last five years.
- The Technical and Financial proposals will be considered and evaluated in accordance with SPPRA Rule 2010 (amended upto date).
- Affidavit on E-stamp paper Rs.500/- to the effect that the firm has never been black listed nor any contract rescinded in past for non-fulfillment of contractual obligations.
- National Tax Number / valid registration with FBR (with active status).
- Valid Registration with SRB (with active status).
- Three years audited report of the firm
- History of litigation (if any) in courts or any arbitration proceedings.
- The Consultants will be selected and engaged in accordance with the existing Procurement SPPRA Rules 2010 (amended upto dated) and through EPADS guide lines.

- The applications of those firm(s) including their subsidiaries and sub-contractor who are blacklisted by any government department or by any of International Donor Agency like IFC, World Bank, JISC and ADB etc shall be rejected without detailed evaluation. The applicant is required to submit undertaking on judicial paper of Rs.200/- that he or any of his associate / manufacture / supplier / sub-contractor is not in the list of blacklisted firms of the above mentioned departments or financing institutions, the undertaking should be duly notarized.
  - An affidavit on E-stamp paper Rs.500/- to the effect that all documents / particulars / information given with this qualification documents are true.
  - An affidavit on E-stamp paper Rs.500/- to the effect that the applicant has never indulged in corrupt, fraudulent or collusive practice for procuring contracts.
  - An affidavit on E-stamp paper Rs.500/- to the effect that the firm is not presently involved nor has been in the past in litigation with its employers. Should this be otherwise, the applicant must provide such details.
  - Any other pertinent information in support of this RFP should also be furnished.
  - Works & Services Department shall disqualify any applicant if it finds, at any time, that the information submitted by him concerning his qualification is false and materially inaccurate or incomplete.
  - The procurement authority reserves the right to reject any or all the tenders / bids as per SPPRA Rules.
4. A firm will be selected procedures described in RFP in accordance with the SPPRA rules on Single Stage- Two Envelope basis.
5. The RFP includes the following documents:
- |             |   |  |
|-------------|---|--|
| Section I   | - | Letter of Invitation                               |
| Section II  | - | Instructions to Consultants (including Data Sheet) |
| Section III | - | Technical Proposal - Standard Forms                |
| Section IV  | - | Financial Proposal - Standard Forms                |
| Section V   | - | Terms of Reference                                 |
| Section VI  | - | Standard Forms of Contract                         |
6. The Proposal (Technical and Financial) will be uploaded on EPADS <http://portalsindh.eprocure.gov.pk/> website after publication of the Notice of RFP on or before **09.04.2026** latest by 10:00 A.M and will be opened on the same day at 10.30 A.M in the office of Executive Engineer, Provincial Highway Division Hyderabad.
- In case of rejected or un-responded proposals, the next schedule opening the RFPs would be as under:-
- 2nd Attempt**
- Bids would be uploaded up to **24.04.2026** latest by 10:00 A.M and opened on the same day at 10:30 A.M.
7. Technical proposal / Bid shall be accompanied with Earnest Money / Bid Security (refundable) equivalent of 2% of the estimated cost. The estimated cost of RFP is Rs.147.200 (million) and 2% earnest money / bid security is **Rs.2.944 (million)** in shape of Call Deposit and the tender fee (non-refundable) amount of PK Rs.5,000/- in shape of Pay Order from any Scheduled Bank of Pakistan in favor of the Executive Engineer, Provincial Highway Division, Hyderabad on account of (Name of Firm) should be uploaded with the Technical E-bid and provided (in original) on or before date of opening in the office of undersigned otherwise such E-bid will not be entertained.
8. All SPPRA Rules 2010 (amended upto date) and circular / notification apply. All eligible / interested consulting firms require to follow the EPADS guide line for uploading their bids.

  
**EXECUTIVE ENGINEER**  
 PROVINCIAL HIGHWAYS DIVISION  
 HYDERABAD

**Copy f.w.cs to:**

- 1 The Chief Engineer (Highways) Hyderabad for favour of his kind information.
- 2 The Director information (Advertisement) Public Relation Department Block-96 Sindh Secretariat Karachi for information along with copies of the Advertisement for its publication in any three (03) Sindhi, Urdu, English Most circulating Newspapers in insertion only.
- 3 The Director (A&F) Sindh Public Procurement Regulatory Authority, Barrack No.8 Sindh Secretariat No.4-A, Court Road Karachi, for favour of his kind information.
- 4 The Superintending Engineer Provincial Highways Circle Hyderabad for his kind information.
- 5 The Members of Consultant Selection Committee \_\_\_\_\_ for information.
- 6 The Assistant Engineers (all) under Provincial Highways Division Hyderabad for information.
- 7 Notice Board / Drawing Branch for information.

  
**EXECUTIVE ENGINEER**  
PROVINCIAL HIGHWAYS DIVISION  
HYDERABAD

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# ڪاوش

روزانه

(جلد 36) اربع 18 مارچ 2026ء بمطابق 28 رمضان المبارڪ 1447ھ (شمارو 227) قيمت 40 روپيا

Wednesday, 18 March, 2026

# آفيس آف ايگزيڪيوٽو انجنيئر پراونشل هاءِ وي ڊويزن حيدرآباد

NO.TC/G-55/3237 of 2026

Dated: 16-03-2026



## تجويز جي درخواست (RFP) (EPADS ذريعي)

- ايگزيڪيوٽو انجنيئر پراونشل هاءِ وي ڊويزن، حيدرآباد (جنهن کي هتي "پروڪيورنگ ايجنسي" سڏيو ويندو) ذاتي هيٺ ڏنل انجنيئرنگ ڪنسلٽنسي سروسز فراهم ڪرڻ لاءِ تجويز جي دعوت ڏني وئي. خدمت بابت وڌيڪ تفصيل ريفرنس جي شرطن ۾ مهيا ڪيا ويا آهن. سروي جو مطالعو / تفصيلي انجنيئرنگ ڊيزائن ۽ ڊرائنگ، تفصيلي ڪم ڪندڙ تخمينن جي تياري، BOQ، PC-I(ب) / تبديل ٿيل / نظر ثاني ٿيل PC-I ۽ ٽينڊر / واڪ دستاويز / جيو ٽيڪنيڪل / معنيٰ جي جاچ جو مطالعو ۽ هيٺين اسڪيم جي تفصيلي ذميوگي جي تياري
- حيدرآباد ۽ ڪوٽڙي جي وچ ۾ سنڌو درياھ تي نئين 4 لائين هاءِ وي پل جي تعمير
- اهل صلاحڪار فرم (صلاحڪارن) کي آر ايف بي دستاويز جي مطابق اي بيڊ ٽيڪنيڪل ۽ مالي تجويز اہلو ڪرڻ جي دعوت ڏني وئي آهي. اهو ارباد ڪيو ويو آهي ته سنڌ حڪومت جي ٽينڊنگ جي آمدني جو هڪ حصو معنيٰ ڏنل منصوبي لاءِ صلاحڪار معاهدي تحت اهل ادا ٿيڻ تي لاڳو ڪيو ويندو. خدمتون ايس بي بي آر اي رولز 2010 (ترميم ٿيل تاريخ ٽائين) جي قاعدن (3) 72 تحت طلب ڪيون وينديون آهن.
- هي تجويز جي درخواست (RFP) جون 2026 ٽائين پاڪستان انجنيئرنگ ڪانسلٽنسي جي جديد سان رجسٽر ٿيل PEC رجسٽرڊ ڪنسلٽنسي JV / پارٽنرز / ايسوسيئيشيڊ فرمز کي موڪلي وئي آهي (پروجيڪٽ پروفائيل ڪورڊ # 1215 ۽ سروسز ڪورڊ # 0511، 0518، 0532 ۽ 0543) ۽ فيڊرل بورڊ آف روينيو (FBR) فار انڪر ٽيڪس، سيلز ٽيڪس ۽ سنڌ روينيو بورڊ، جيڪي اسٽيمٽ لاءِ غور ڪرڻ ۽ دلچسپي رکڻ ٿا، انهن کي هن RFP دستاويز سان ڳنڍيل فارميٽ مطابق معلومات جمع ڪرائڻ گهرجي.
- فرمز کي خاص طور تي سنڌو درياھ تي پري اسٽريسڊ پلن جي تفصيلي انجنيئرنگ ڊرائنگ ۽ ڊيزائن ۾ پنهنجي تجربي جي حمايت ڪرڻ جي ضرورت آهي. هيٺ ڏنل معلومات پڻ اي بيڊ سان اہلو ڪرڻ گهرجي:
- فرم جو نالي پتو، فون، فيڪس نمبر ۽ اي ميل ايڊريس
- گذريل پنجن سالن ۾ فرم جو سالياني ٽرن اوور جنهن ۾ آمدني جو بيان ۽ بيلنس شيٽ شامل آهن
- گذريل پنجن سالن دوران سراسري سالياني مالي ٽرن اوور اسڪيم / منصوبي جي برابر قيمت کان گهٽ نه هجي.
- فرم جو گذريل 15 سالن ۾ عام تجربي ۽ ان سلسلي ۾ جاري منصوبن جي فهرست جنهن ۾ ڪلائينٽ جو نالو ۽ اسٽيمٽ جي قيمت شامل آهي جنهن ۾ مڪمل مهيني جي ان پٽ الڳ الڳ مهيا ڪيا ويندا.
- فرم جي تنظيم، قابليت، تجربي سان گڏ مستقل ٽيڪنيڪل عملي جي فهرست (ليڊ ۽ ايسوسيئيشڊ فرم ٻنهي لاءِ).
- گذريل پنجن سالن جي آمدني ٽيڪس جي حيثيت.
- ٽيڪنيڪل ۽ مالي تجويزن تي غور ڪيو ويندو ۽ جائز ورتو ويندو SPPRA قاعدو 2010 (ترميم ٿيل) جي مطابق
- اي-اسٽيمٽ بيجر تي 500 رپيا حلف نامو جنهن جو مقصد اهو آهي ته فرم کي ڪڏهن به بليڪ لسٽ نه ڪيو ويو آهي ۽ نه ئي ماضي ۾ ڪا به معاهدي جي ذميوگي کي پورو نه ڪرڻ جي ڪري منسوخ ڪيو ويو آهي.
- نيشنل ٽيڪس نمبر / ايف بي آر سان ڪارگر رجسٽريشن (فعال حيثيت سان).
- ايس آر بي سان ڪارگر رجسٽريشن (فعال حيثيت سان).
- فرم جي ٽن سالن جي آڊٽ ٿيل رپورٽ
- عدالتن يا ڪنهن به ثالثي جي ڪارروائي ۾ مقدمي جي تاريخ (جيڪڏهن ڪا هجي).
- صلاحڪارن کي موجوده خريداري SPPRA ضابطن 2010 (تاريخ ٽائين ترميم ٿيل) ۽ EPADS گائيڊ لائينن جي مطابق چونڊيو ويندو ۽ انهن کي ڪم تي لڳايو ويندو.
- انهن فرم (فرمن) جون درخواستون جن ۾ انهن جي ماتحت ادارن ۽ ذيلي ليڪيڊر شامل آهن جيڪي ڪنهن به سرڪاري کاتي يا ڪنهن به بين الاقوامي ڊويزن ايجنسي جهڙوڪ HFC، ورلڊ بينڪ، JISC ۽ ADB وغيره پاران بليڪ لسٽ ڪيا ويا آهن انهن کي تفصيلي جائزي کانسواءِ رد ڪيو ويندو. درخواست ڏيندڙ کي 200 رپين جي عدالتي نڪاغذ تي حلف نامو جمع ڪرائڻو پوندو ته هو يا سندس ڪو به ساٿي / ميٽريڪيڊر / سيلار / سب ليڪيڊر معنيٰ ذڪر ڪيل شعبن يا مالي ادارن جي بليڪ لسٽ ڪيل فرمن جي فهرست ۾ نه آهن. ان معاهدي کي ڪارگر طور تي نوٽرائيز ڪيو وڃي.
- اي-اسٽيمٽ بيجر تي 500 رپيا حلف نامو جنهن ۾ اهو بيان ڪيو ويو آهي ته هن قابليت جي دستاويزن سان ڏنل سيٽي دستاويز / تفصيل / معلومات سچي آهي.
- اي-اسٽيمٽ بيجر تي 500 رپيا حلف نامو جنهن ۾ اهو بيان ڪيو ويو آهي ته درخواست ڏيندڙ ڪڏهن به ٽيڪا حاصل ڪرڻ لاءِ بدعنواني، جعلسازي يا سازش ۾ ملوث نه ٿيو آهي.
- اي-اسٽيمٽ بيجر تي 500 رپيا حلف نامو جنهن ۾ اهو بيان ڪيو ويو آهي ته فرم هن وقت ملوث ناهي ۽ نه ئي ماضي ۾ پنهنجي ملازمن سان قانوني ڪارروائي ۾ رهي آهي. جيڪڏهن اهو بي صورت ۾ هجي ته درخواست ڏيندڙ کي اهڙين تفصيل فراهم ڪرڻ گهرجن.
- هن آر ايف بي جي حمايت ۾ ڪا به لاڳاپيل معلومات پڻ فراهم ڪئي وڃي.
- روڪس اينڊ سروسز ڊپارٽمينٽ ڪنهن به درخواست ڏيندڙ کي ناهل قرار ڏيندو جيڪڏهن اهو ڪنهن به وقت اهو ڏسي ته سندس قابليت بابت پيش ڪيل معلومات غلط ۽ مادي طور تي غلط يا نامڪمل آهي.
- خريداري اختيارين کي ايس بي بي آر اي جي ضابطن مطابق ڪنهن به يا سڀني ٽينڊر / واڪن کي رد ڪرڻ جو حق محفوظ آهي.
- هڪ فرم کي آر ايف بي ۾ بيان ڪيل طريقن مطابق SPPRA ضابطن جي مطابق سنڪل اسٽيج-ٽن لٽائي جي بنياد تي چونڊيو ويندو.
- آر ايف بي ۾ هيٺيان دستاويز شامل آهن:
- سيڪشن I- ليٽر جي دعوت
- سيڪشن II- صلاحڪارن لاءِ هدايتون (ڊيٽا شيٽ سميت)
- سيڪشن III- ٽيڪنيڪل تجويز - معياري فارم
- سيڪشن IV- مالي تجويز - معياري فارم
- سيڪشن V- حوالن جا شرط
- سيڪشن VI- معاهدي جا معياري فارم
- تجويز (ٽيڪنيڪل ۽ مالي) <http://portalsindh.eprocure.gov.pk/> EPADS (ويب سائيت تي آر ايف بي جي نوٽيس جي اشاعت کان پوءِ 09.04.2026 تي يا ان کان اڳ صبح جو 10:00 وڳي ٽائين اہلو ڪئي ويندي ۽ ساڳئي ڏينهن صبح جو 10:30 وڳي ايگزيڪيوٽو انجنيئر پراونشل هاءِ وي ڊويزن حيدرآباد جي آفيس ۾ کوليو ويندو.
- ره ٿيل يا غير جوابي تجويزن جي صورت ۾، آر ايف بي کي کولڻ وارو ايندڙ شيڊيول هيٺ ڏنل هوندو:
- بي ڪوشش:
- واڪ 24.04.2026 ٽائين صبح جو 10:00 وڳي ٽائين اہلو ڪيا ويندا ۽ ساڳئي ڏينهن صبح جو 10:30 وڳي کوليا ويندا.
- ٽيڪنيڪل تجويز / واڪ سان گڏ آمدني جي رقم / واڪ سيڪيورٽي (قابل واپسي) ڪيل قيمت جي 2% جي برابر هوندي. آر ايف بي جي ڪيل قيمت 147.200 (ملين) رپيا آهي ۽ 2% آمدني جي رقم / واڪ سيڪيورٽي 2.944 (ملين) رپيا ڪال ڊپازٽ جي صورت ۾ آهي ۽ ٽينڊر فيس (قابل واپسي) رقم 5,000 رپيا ڪنهن به شيڊيولڊ بينڪ آف پاڪستان کان پڻ آڙو جي صورت ۾ ايگزيڪيوٽو انجنيئر پراونشل هاءِ وي ڊويزن، حيدرآباد جي حق ۾ (فرم جو نالو) ٽيڪنيڪل اي-واڪ سان گڏ اہلو ڪئي وڃي ۽ (اصل ۾) کولڻ جي تاريخ تي يا ان کان اڳ هيٺ صحيح ڪندڙ جي آفيس ۾ مهيا ڪئي وڃي. بي صورت ۾ اهڙي اي-واڪ تي غور نه ڪيو ويندو.
- سيٽي SPPRA رولز 2010 (ترميم ٿيل تاريخ ٽائين) ۽ سرڪيولر / نوٽيفڪيشن لاڳو ٿين ٿا، سڀني اهل / دلچسپي رکندڙ صلاحڪار فرمن کي پنهنجا واڪ اپ لوڊ ڪرڻ لاءِ EPADS گائيڊ لائن تي عمل ڪرڻ جي ضرورت آهي.

### ايگزيڪيوٽو انجنيئر پراونشل هاءِ وي ڊويزن حيدرآباد.

Wednesday, March 18, 2026

Price Rs. 20

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# OFFICE OF THE EXECUTIVE ENGINEER, PROVINCIAL HIGHWAY DIVISION HYDERABAD

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Dated: 16/03/2026

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  - General experience of the firm in last fifteen years or so and list of ongoing projects in this respect including name of client and value of assignment with main month inputs to be provided separately.
  - Organization of the firm, list of the permanent technical staff (both for lead and associate firm) with qualification, experience.
  - Income tax status of the last five years.
  - The Technical and Financial proposals will be considered and evaluated in accordance with SPPRA Rule 2010 (amended upto date).
  - Affidavit on E-stamp paper Rs.500/- to the effect that the firm has never been black listed nor any contract rescinded in past for non-fulfilment of contractual obligations.
  - National Tax Number / valid registration with FBR (with active status).
  - Valid Registration with SRB (with active status).
  - Three years audited report of the firm
  - History of litigation (if any) in courts or any arbitration proceedings.
  - The Consultants will be selected and engaged in accordance with the existing Procurement SPPRA Rules 2010 (amended upto dated) and through EPADS guide lines.
  - The applications of those firm(s) including their subsidiaries and sub-contractor who are blacklisted by any government department or by any of international Donor Agency like IFC, World Bank, JSC and ADB etc shall be rejected without detailed evaluation. The applicant is required to submit undertaking on judicial paper of Rs.200/- that he or any of his associate/manufacture / supplier / sub-contractor is not in the list of blacklisted firms of the above mentioned departments or financing institutions, the undertaking should be duly notarized.
  - An affidavit on E-stamp paper Rs.500/- to the effect that all documents / particulars / information given with this qualification documents are true.
  - An affidavit on E-stamp paper Rs.500/- to the effect that the applicant has never indulged in corrupt, fraudulent or collusive practice for procuring contracts.
  - An affidavit on E-stamp paper Rs.500/- to the effect that the firm is not presently involved nor has been in the past in litigation with its employers. Should this be otherwise, the applicant must provide such details.
  - Any other pertinent information in support of this RFP should also be furnished.
  - Works & Services Department shall disqualify any applicant if it finds, at any time, that the information submitted by him concerning his qualification is false and materially inaccurate or incomplete.
  - The procurement authority reserves the right to reject any or all the tenders / bids as per SPPRA Rules.

- Valid Registration with SRB (with active status).
- Three years audited report of the firm
- History of litigation (if any) in courts or any arbitration proceedings.
- The Consultants will be selected and engaged in accordance with the existing Procurement SPPRA Rules 2010 (amended upto dated) and through EPADS guide lines.
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- Works & Services Department shall disqualify any applicant if it finds, at any time, that the information submitted by him concerning his qualification is false and materially inaccurate or incomplete.
- The procurement authority reserves the right to reject any or all the tenders / bids as per SPPRA Rules.

4. A firm will be selected procedures described in RFP in accordance with the SPPRA rules on Single Stage-Two Envelope basis.

5. The RFP includes the following documents:

- |             |   |  |
|-------------|---|--|
| Section I   | - | Letter of Invitation                               |
| Section II  | - | Instructions to Consultants (including Data Sheet) |
| Section III | - | Technical Proposal - Standard Forms                |
| Section IV  | - | Financial Proposal Standard Forms                  |
| Section V   | - | Terms of Reference                                 |
| Section VI  | - | Standard Forms of Contract                         |

6. The Proposal (Technical and Financial) will be uploaded on EPADS <http://portalsindhuprocure.gov.pk/> website after publication of the Notice of RFP on or before **09.04.2026** latest by 10:00 A.M and will be opened on the same day at 10:30 A.M in the office of Executive Engineer, Provincial Highway Division Hyderabad.

In case of rejected or un-responded proposals, the next schedule opening the RFPs would be as under:-

**2nd Attempt**

Bids would be uploaded up to **24.04.2026** latest by 10:00 A.M and opened on the same day at 10:30 A.M.

7. Technical proposal / Bid shall be accompanied with Earnest Money / Bid Security (refundable) equivalent of 2% of the estimated cost. The estimated cost of RFP is Rs.147200 (million) and 2% earnest money / bid security is **Rs.2.944** (million) in shape of Call Deposit and the tender fee (non-refundable) amount of PK Rs.5,000/- in shape of Pay Order from any Scheduled Bank of Pakistan in favor of the Executive Engineer, Provincial Highway Division, Hyderabad on account of (Name of Firm) should be uploaded with the Technical E-bid and provided (in original) on or before date of opening in the office of undersigned otherwise such E-bid will not be entertained.

8. All SPPRA Rules 2010 (amended upto date) and circular / notification apply. All eligible /interested consulting firms require to follow the EPADS guide line for uploading their bids.

**EXECUTIVE ENGINEER**  
**PROVINCIAL HIGHWAYS DIVISION**  
**HYDERABAD**







**WORKS & SERVICES DEPARTMENT  
GOVERNMENT OF SINDH  
PROVINCIAL HIGHWAY DIVISION HYDERABAD**

**REQUEST FOR PROPOSAL  
FOR  
SELECTION OF CONSULTANTS**

**FOR**

**Survey Study / Detailed Engineering Design & Drawings, Preparation of Detailed Working Estimates, BOQ, / PC-I(s) Modified / Revised PC-I and Tender / Bidding Documents / Geotechnical / Soil Investigation Study and preparation of detail feasibility of following scheme.**

**Construction of New 4-Lane Highway Bridge over River Indus between  
Hyderabad and Kotri**

**Quality & Cost Based Selection (QCBS) Method**

**March 2026**

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## **Section I. Letter of Invitation**

## Letter of Invitation

No. NO/TC/G-55/3237 of 2026

Dated: 16-03-2026

### Request for Proposal

To,

*[insert: Name and Address of Consultant]*

Dear Mr./Ms.:

1. The Executive Engineer, Provincial Highway Division, Hyderabad (hereinafter called "Procuring Agency") now invites proposal to provide the following Engineering Consultancy Services. More details on the services are provided in the Terms of Reference.

**Survey Study / Detailed Engineering Design & Drawings, Preparation of Detailed Working Estimates, BOQ, / PC-I(s) Modified / Revised PC-I and Tender / Bidding Documents / Geotechnical / Soil Investigation Study and preparation of detail feasibility of following scheme.**

**Construction of 4 – Lane Bridge over River Indus between Hyderabad and Kotri.**

2. Eligible consulting firms (Consultants) are invited to upload E-bid technical and financial proposal in accordance with RFP Document. It is intended that part of the proceeds of Government of Sindh's funding will be applied to eligible payments under the Consultancy Contract for above project. The services are invited under Rule-72(3) of SPPRA Rules 2010 (amended upto date).
3. This Request for Proposal (RFP) has been addressed to the PEC registered Consultants / JV Partners / Associated Firms registered with Pakistan Engineering Council renewal upto June 2026 with (Project Profile Code # 1215 and Services Codes 0511, 0518, 0532 and 0543) and Federal Board of Revenue (FBR) for Income Tax, Sales Tax and Sindh Revenue Board, who are interested to be considered for the assignment should submit information as per formats attached with this RFP document.

Firms are required to support their experience specifically in detailed engineering drawing & design of Pre-stressed Bridge(s) over Indus River. Following information should also be upload with E-Bid:

- Name, address, phone, fax numbers & Email address of the firm.
- Yearly turnover of the firm for the last five years including income statement and balance sheets.

## Section I- Letter of Invitation

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- Average Annual Financial Turn-over not less than equivalent cost of the scheme / project during last five years.
  - General experience of the firm in last fifteen years or so and list of ongoing projects in this respect including name of client and value of assignment with main month inputs to be provided separately.
  - Organization of the firm, list of the permanent technical staff (both for lead and associate firm) with qualification, experience.
  - Income tax status of the last five years.
  - The Technical and Financial proposals will be considered and evaluated in accordance with SPPRA Rule 2010 (amended upto date).
  - Affidavit on E-stamp paper Rs.500/- to the effect that the firm has never been black listed nor any contract rescinded in past for non-fulfillment of contractual obligations.
  - National Tax Number / valid registration with FBR (with active status).
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  - Three years audited report of the firm
  - History of litigation (if any) in courts or any arbitration proceedings.
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  - The applications of those firm(s) including their subsidiaries and sub-contractor who are blacklisted by any government department or by any of International Donor Agency like IFC, World Bank, JISC and ADB etc shall be rejected without detailed evaluation. The applicant is required to submit undertaking on judicial paper of Rs.200/- that he or any of his associate / manufacture / supplier / sub-contractor is not in the list of blacklisted firms of the above mentioned departments or financing institutions, the undertaking should be duly notarized.
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  - An affidavit on E-stamp paper Rs.500/- to the effect that the applicant has never indulged in corrupt, fraudulent or collusive practice for procuring contracts.
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  - The procurement authority reserves the right to reject any or all the tenders / bids as per SPPRA Rules.
4. A firm will be selected procedures described in RFP in accordance with the SPPRA rules on Single Stage- Two Envelope basis.
5. The RFP includes the following documents:
- |             |   |  |
|-------------|---|--|
| Section I   | - | Letter of Invitation                               |
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| Section V   | - | Terms of Reference                                 |

Section VI - Standard Forms of Contract

6. The Proposal (Technical and Financial) will be uploaded on EPADS <http://portalsindh.eprocure.gov.pk/> website after publication of the Notice of RFP on or before **09.04.2026** latest by 10:00 A.M and will be opened on the same day at 10.30 A.M in the office of Executive Engineer, Provincial Highway Division Hyderabad.

In case of rejected or un-responded proposals, the next schedule opening the RFPs would be as under:-

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8. All SPPRA Rules 2010 (amended upto date) and circular / notification apply. All eligible / interested consulting firms require to follow the EPADS guide line for uploading their bids.

Yours sincerely,

**Executive Engineer**  
**Provincial Highway Division, Hyderabad,**  
**Near Faran Hotel Saddar Hyderabad**  
**Telephone No. 022-9200068**



## **Section II. Instructions to Consultants**

## **Instructions to Consultants**

### **Definitions**

- (a) “Procuring Agency (PA)” means the department with which the selected Consultant signs the Contract for the Services.
- (b) “Consultant” means a professional who can study, design, organize, evaluate and manage projects or assess, evaluate and provide specialist advice or give technical assistance for making or drafting policies, institutional reforms and includes private entities, consulting firms, legal advisors, engineering firms, construction managers, management firms, procurement agents, inspection agents, auditors, international and multinational organizations, investment and merchant banks, universities, research institutions, government agencies, nongovernmental organizations, and individuals.
- (c) “Contract” means an agreement enforceable by law and includes General and Special Conditions of the contract.
- (d) “Data Sheet” means such part of the Instructions to Consultants that is used to reflect specific assignment conditions.
- (e) “Day” means calendar day including holiday.
- (f) “Government” means the Government of Sindh.
- (g) “Instructions to Consultants” (Section 2 of the RFP) means the document which provides shortlisted Consultants with all information needed to prepare their Proposals.
- (h) “LOI” (Section 1 of the RFP) means the Letter of Invitation sent by the procuring agency to the Consultant.
- (i) “Proposal” means the Technical Proposal and the Financial Proposal.
- (j) “RFP” means the Request for Proposal prepared by the procuring Agency for the selection of Consultants.
- (k) “Sub-Consultant” means any person or entity to whom the Consultant subcontracts any part of the Services.
- (l) “Terms of Reference” (TOR) means the document included in the RFP as Section 5 which explains the objectives, scope of work, activities, tasks to be performed, respective responsibilities of the procuring agency and the Consultant, and expected results and deliverables of the assignment.

**2. Introduction**

- 2.1 The Procuring agency named in the Data Sheet will select a consulting firm/organization (the Consultant) from those listed in the Letter of Invitation, in accordance with the method of selection specified in the Data Sheet.
- 2.2 The eligible Consultants (shortlisted if so) are invited to submit a Technical Proposal and a Financial Proposal, or a Technical Proposal only, as specified in the Data Sheet. The Proposal will be the basis for contract negotiations and ultimately for a signed Contract with the selected Consultant.
- 2.3 Consultants should familiarize themselves with rules / conditions and take them into account while preparing their Proposals. Consultants are encouraged to attend a pre-proposal conference if one is specified in the Data Sheet. Attending the pre-proposal conference is, however optional. Consultants may liaise with procuring agency's representative named in the Data Sheet for gaining better insight into the assignment.
- 2.4 Consultants shall bear all costs associated with the preparation and submission of their proposals and contract negotiation. The Procuring Agency reserves the right to annul the selection process at any time prior to Contract award, without thereby incurring any liability to the Consultants.
- 2.5 Procuring Agency may provide facilities and inputs as specified in Data Sheet.

**3. Conflict of Interest**

- 3.1.1 Consultants are required to provide professional, objective, and impartial advice and holding the Procuring Agency interest paramount. They shall strictly avoid conflict with other assignments or their own corporate interest. Consultants have an obligation to disclose any situation of actual or potential conflict that impacts their capacity to serve the best interest of the Procuring Agency, or that may reasonably be perceived as having such effect. Failure to disclose said situations may lead to the disqualification of the Consultant or the termination of its Contract.
- 3.1.2 Without limitation on the generality of the foregoing, Consultants, and any of their affiliates, shall be considered to have a conflict of interest and shall not be recruited, under any of the circumstances set forth below:
  - (i) A consultant that has been engaged by the procuring agency to provide goods, works or services other than

consulting services for a project, any of its affiliates, shall be disqualified from providing consulting services related to those goods, works or services. Conversely, a firm hired to provide consulting services for the preparation or implementation of a project, any of its affiliates, shall be disqualified from subsequently providing goods or works or services other than consulting services resulting from or directly related to the firm's consulting services for such preparation or implementation.

- (ii) A Consultant (including its Personnel and Sub-Consultants) or any of its affiliates shall not be hired for any assignment that, by its nature, may be in conflict with another assignment of the Consultant to be executed for the same or for another Procuring Agency.
- (iii) A Consultant (including its Personnel and Sub-Consultants) that has a business or family relationship with a member of the Procuring Agency's staff who is directly or indirectly involved in any part of (i) the preparation of the Terms of Reference of the assignment, (ii) the selection process for such assignment, or (iii) supervision of the Contract, may not be awarded a Contract, unless the conflict stemming from this relationship has been resolved.

**Conflicting Relationships**

- 3.2 Government officials and civil servants may be hired as consultants only if:
- (i) They are on leave of absence without pay;
  - (ii) They are not being hired by the agency they were working for, six months prior to going on leave; and
  - (iii) Their employment would not give rise to any conflict of interest.

**4. Fraud and Corruption**

It is Government's policy that Consultants under the contract(s), observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, the Procuring Agency follows the instructions contained in Sindh Public procurement Rules 2010 which defines:

“ corrupt and fraudulent practices” includes the offering, giving, receiving, or soliciting, directly or indirectly of anything of value to influence the act of another party for wrongful gain or any act or omission ,including misrepresentation, that knowingly or recklessly misleads or attempt mislead a party to obtain a financial or other benefit or to avoid an obligation;

Under Rule 35 of SPPR2010, “The PA can inter-alia blacklist Bidders found to be indulging in corrupt or fraudulent practices. Such

barring action shall be duly publicized and communicated to the SPPRA. Provided that any supplier or contractor who is to be blacklisted shall be accorded adequate opportunity of being heard”.

**5. Integrity Pact**

Pursuant to Rule 89 of SPPR 2010 Consultant undertakes to sign an Integrity pact in accordance with prescribed format attached hereto for all the procurements estimated to exceed Rs. 2.5 million. (Annex- A)

**6. Eligible Consultants**

- 6.1 If short listing process has been undertaken through REOI, as outlined under Rule 73 and 74 of SPPR2010 for the Contract(s) for which these RFP documents are being issued, those firms - in case of Joint Ventures with the same partner(s) and Joint Venture structure - that had been pre-qualified are eligible.
- 6.2 Short listed consultants emerging from request of expression of interest are eligible.

**7. Eligibility of Sub-Consultants**

A shortlisted Consultant would not be allowed to associate with Consultants who have failed to qualify the short-listing process.

**8. Only one Proposal**

Shortlisted Consultants may only submit one proposal. If a Consultant submits or participates in more than one proposal, such proposals shall be disqualified. Participation of the same Sub- Consultant, including individual experts, to more than one proposal is not allowed.

**9. Proposal Validity**

- 9.1 The Data Sheet indicates Proposals validity that shall not be more than 90 days in case of National Competitive Bidding (NCB) and 120 days in case of International competitive Bidding (ICB). During this period, Consultants shall maintain the availability of Professional staff nominated in the Proposal. The Procuring Agency will make its best effort to complete negotiations within this period. Should the need arise; however, the Procuring Agency may request Consultants to extend the validity period of their proposals. Consultants who agree to such extension shall confirm that they maintain the availability of the Professional staff nominated in the Proposal, or in their confirmation of extension of validity of the Proposal, Consultants may submit new staff in replacement, who would be considered in the final evaluation for contract award. Consultants who do not agree have the right to refuse to extend the validity of their Proposals.
- 9.2 Consultants shall submit required bid security along with technical proposal defined in the data sheet (which shall not be

less than one percent and shall not exceed five percent of bid amount).

**10. Clarification and Amendment in RFP Documents**

10.1 Consultants may request for a clarification of contents of the bidding document in writing, and procuring agency shall respond to such queries in writing within three calendar days, provided they are received at least five calendar days prior to the date of opening of proposal. The procuring agency shall communicate such response to all parties who have obtained RFP document without identifying the source of inquiry. Should the PA deem it necessary to amend the RFP as a result of a clarification, it shall do so.

10.2 At any time before the submission of Proposals, the Procuring Agency may amend the RFP by issuing an addendum/corrigendum in writing. The addendum shall be sent to all Consultants and will be binding on them. Consultants shall acknowledge receipt of all amendments. To give Consultants reasonable time in which to take an amendment into account in their Proposals the Procuring Agency may, if the amendment is substantial, extend the deadline for the submission of Proposals.

**11. Preparation of Proposals**

11.1 In preparing their Proposal, Consultants are expected to examine in detail the documents comprising the RFP. Material deficiencies (deviation from scope, experience and qualification of personnel) in providing the information requested may result in rejection of a Proposal.

11.2 The estimate number of professional staff months or the budget required for executing the assignment should be shown in the data sheet, but not both. However, proposal shall be based on the professional staff month or budget estimated by the consultant.

**12. Language**

The Proposal as well as all related correspondence exchanged by the Consultants and the Procuring Agency shall be written in English. However it is desirable that the firm's Personnel have a working knowledge of the national and regional languages of Islamic Republic of Pakistan.

**13. Technical Proposal Format and Content**

13.1 While preparing the Technical Proposal, consultants must give particular attention to the following:

- (i) If a consultant considers that it does not have all the expertise for the assignment, it may obtain a full range of expertise by associating with individual consultant(s) and/or other firms or entities in a joint venture or sub-

consultancy, as appropriate. The international consultants are encouraged to seek the participation of local consultants by entering into a joint venture with, or subcontracting part of the assignment to, national consultants.

- (ii) For assignments on a staff-time basis, the estimated number of professional staff-months is given in the Data Sheet. The proposal shall, however, be based on the number of professional staff-months estimated by the firm. For fixed-budget-based assignments, the available budget is given in the Data Sheet, and the Financial Proposal shall not exceed this budget.
- (iii) It is desirable that the majority of the key professional staff proposed be permanent employees of the firm or have an extended and stable working relationship with it.
- (iv) Proposed professional staff must, at a minimum, have the experience indicated in the Data Sheet, preferably working under similar geographical condition.
- (v) Alternative professional staff shall not be proposed, and only one curriculum vitae (CV) shall submitted for each position.

13.2 The Technical Proposal shall provide the following information using the attached Standard Forms (Section 3):

- (i) A brief description of the consultant organization and an outline of recent experience on assignments (Section 3B) of a similar nature. For each assignment, the outline should indicate, *inter alia*, the profiles of the staff, duration of the assignment, contract amount, and firm's involvement.
- (ii) Any comments or suggestions on the Terms of Reference and on the data, a list of services, and facilities to be provided by the PA (Section 3C).
- (iii) The list of the proposed staff team by specialty, the tasks that would be assigned to each staff team member, and their timing (Section 3E).
- (iv) CVs recently signed by the proposed professional staff and the authorized representative submitting the proposal (Section 3F). Key information should include number of years working for the consultant and degree of responsibility held in various assignments during the last \_\_\_\_\_ (PA may give number of years as per their requirement) years.
- (v) Estimates of the total staff input (professional and support

staff; staff time) needed to carry out the assignment, supported by bar chart diagrams showing the time proposed for each professional staff team member (Sections 3E and 3G).

- (vi) A detailed description of the proposed methodology, work plan for performing the assignment, staffing, and monitoring of training, if the Data Sheet specifies training as a major component of the assignment (Section 3D).
- (vii) Any additional information requested in the Data Sheet.

13.3 The Technical Proposal shall not include any financial information.

**14. Financial Proposals**

14.1 The Financial Proposal shall be prepared using the attached Standard Forms (Section 4). It shall list all costs associated with the assignment, including (a) remuneration for staff (in the field and at the Consultants' office), and (b) reimbursable expenses indicated in the Data Sheet (if applicable). Alternatively Consultant may provide their own list of cost. If appropriate, these costs should be broken down by activity. All activities and items described in the Technical Proposal must be priced separately; activities and items described in the Technical Proposal but not priced, shall be assumed to be included in the prices of other activities or items.

**15. Taxes**

15.1 The Consultant will be subject to all admissible taxes including stamp duty and service charges at a rate prevailing on the date of contract agreement unless exempted by relevant tax authority.

**16. Submission, Receipt, and Opening of Proposals**

16.1 Proposal shall contain no interlineations or overwriting. Submission letters for both Technical and Financial Proposals should respectively be in the format of TECH-1 of Section 3, and FIN-1 of Section 4. All pages of the original Technical and Financial Proposals will be initialed by an authorized representative of the Consultants (Individual Consultant). The authorization shall be in the form of a written power of attorney accompanying the Proposal

16.2 All required copies of the Technical Proposal are to be made from the original. If there are discrepancies between the original and the copies of the Technical Proposal, the original governs.

16.3 The original and all copies of the Technical Proposal shall be placed in a sealed envelope clearly marked "TECHNICAL PROPOSAL" Similarly, the original Financial Proposal (if required under the selection method indicated in the Data Sheet)

shall be placed in a sealed envelope clearly marked “FINANCIAL PROPOSAL” followed by name of the assignment, and with a warning “**DO NOT OPEN WITH THE TECHNICAL PROPOSAL.**” If the Financial Proposal is not submitted in a separate sealed envelope duly marked as indicated above, this will constitute grounds for declaring the Proposal non-responsive.

16.4 The Proposals must be sent to the address indicated in the Data Sheet and received by the PA no later than the time and the date indicated in the Data Sheet, or any extension to this date. Any proposal received by the PA after the deadline for submission shall be returned unopened. In order to avoid any delay arising from the postal or PA’s internal despatch workings, Consultants should ensure that proposals to be sent through couriers should reach a day before the deadline for submission. .

**17. Proposal Evaluation**

17.1 From the time the Proposals are opened to the time the Contract is awarded, the Consultants should not contact the PA on any matter related to its Technical and/or Financial Proposal. Any effort by Consultants to influence the PA in the examination, evaluation, ranking of Proposals, and recommendation for award of Contract may result in the rejection of the Consultants’ Proposal.

Evaluators of Technical Proposals shall have no access to the Financial Proposals until the technical evaluation is concluded.

**18. Evaluation of Technical Proposals**

18.1 The evaluation committee shall evaluate the Technical Proposals on the basis of their responsiveness to the Terms of Reference, applying the evaluation criteria, sub-criteria, and point system specified in the Data Sheet. Each responsive Proposal will be given a technical score (St). A Proposal shall be rejected at this stage if it fails to achieve the minimum technical score indicated in the Data Sheet.

In the case of Quality-Based Selection, Selection Based on Consultant’s Qualifications, and Single-Source Selection, the highest ranked consultant or firm selected on a single-source basis is invited to negotiate its proposal and the contract on the basis of the Technical Proposal and the Financial Proposal submitted.

**Public Opening and Evaluation of Financial Proposals:  
(LCS , QCBS, and Fixed Budget Selection Methods Only)**

18.2 After the technical evaluation is completed, the PA shall notify in writing Consultants that have secured the minimum

qualifying marks, the date, time and location, allowing a reasonable time, for opening the Financial Proposals. Consultants' attendance at the opening of Financial Proposals is optional.

Financial proposals of those consultants who failed to secure minimum qualifying marks shall be returned unopened.

**19. Evaluation of Financial Proposals**

- 19.1 Financial Proposals shall be opened publicly in the presence of the Consultants' representatives who choose to attend. The name of the Consultants and the technical scores of the Consultants shall be read aloud. The Financial Proposal of the Consultants who met the minimum qualifying mark will then be inspected to confirm that they have remained sealed and unopened. These Financial Proposals shall be then opened, and the total prices read aloud and recorded. Copy of the record shall be sent to all Consultants.
- 19.2 The Evaluation Committee will correct any computational errors. When correcting computational errors, in case of discrepancy between a partial amount and the total amount, or between word and figures the formers will prevail. In addition to the above corrections, activities and items described in the Technical Proposal but not priced, shall be assumed to be included in the prices of other activities or items.
- 19.3 In case of **Least Cost Selection LCS Method**, the bid found to be the lowest evaluated bid shall be accepted.
- 19.4 **In case of Quality and Cost Based Selection QCBS Method** the lowest evaluated Financial Proposal (Fm) will be given the maximum financial score (Sf) of 100 points. The financial scores (Sf) of the other Financial Proposals will be computed as indicated in the Data Sheet. Proposals will be ranked according to their combined technical (St) and financial (Sf) scores using the weights (T = the weight given to the Technical Proposal; P = the weight given to the Financial Proposal; T + P = 1) indicated in the Data Sheet:  $S = St \times T\% + Sf \times P\%$ . The firm achieving the highest combined technical and financial score will be invited for negotiations.
- 19.5 In the case of Fixed-Budget and Quality Based Selection, the Procuring Agency will select the firm that submitted the highest ranked Technical Proposal.

- 20. Negotiations**                      20.1 Negotiations will be held at the date and address indicated in the Data Sheet. The invited Consultant will, as a pre-requisite for attendance at the negotiations, confirm availability of all Professional staff. Failure in satisfying such requirements may result in the PA proceeding to negotiate with the next-ranked Consultant. Representatives conducting negotiations on behalf of the Consultant must have written authority to negotiate and conclude a Contract.
- 21. Technical negotiations**                      21.1 Technical Negotiations will include a discussion of the Technical Proposal, the proposed technical approach and methodology, work plan, organization and staffing, and any suggestions made by the Consultant to improve the Terms of Reference. The PA and the Consultants will finalize the Terms of Reference, staffing schedule, work schedule, logistics, and reporting. These documents will then be incorporated in the Contract as “Description of Services”. Minutes of negotiations, which will be signed by the PA and the Consultant, will become part of Contract Agreement.
- 22. Financial negotiations**                      22.1 If applicable, it is the responsibility of the Consultant, before starting financial negotiations, to contact the local tax authorities to determine the tax amount to be paid by the Consultant under the Contract. The financial negotiations will include a clarification (if any) of the firm’s tax liability, and the manner in which it will be reflected in the Contract; and will reflect the agreed technical modifications in the cost of the services. Consultants will provide the PA with the information on remuneration rates described in the Appendix attached to Section 4 (i.e. Financial Proposal - Standard Forms of this RFP.
- 23. Availability of Professional staff/experts**                      23.1 Having selected the Consultant on the basis of, among other things, an evaluation of proposed Professional staff, the PA expects to negotiate a Contract on the basis of the Professional staff named in the Proposal. Before contract negotiations, the PA will require assurances that the Professional staff will be actually available. The PA will not consider substitutions during contract negotiations unless both parties agree that undue delay in the selection process makes such substitution unavoidable or for reasons such as death or medical incapacity. If this is not the case and if it is established that Professional staff were offered in the proposal without confirming their availability, the Consultant may be disqualified. Any proposed substitute shall have equivalent or better qualifications and experience than the original candidate and be submitted by the Consultant within

the period of time specified in the letter of invitation to negotiate.

**24. Award of Contract**

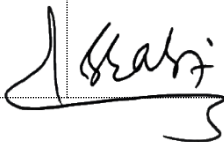
- 24.1 After completing negotiations, the Procuring Agency shall award the Contract to the selected Consultant and within seven of the award of contract, Procuring Agency shall publish on the website of the Authority and on its own website, if such a website exists, the result of the bidding process, identifying the bid through procuring identifying number, if any and the following information, evaluation report, form of contract and letter of award, bill of quantity or schedule of requirement, as the case may be.
- 24.2 After publishing of award of contract consultant required to submit a performance security at the rate indicated in data sheet.
- 24.3 The Consultant is expected to commence the assignment on the date and at the location specified in the Data Sheet.

**25. Confidentiality**

Information relating to evaluation of Proposals and recommendations concerning awards shall not be disclosed to the Consultants who submitted the Proposals or to other persons not officially concerned with the process, until the publication of the award of Contract. The undue use by any Consultant of confidential information related to the process may result in the rejection of its Proposal.

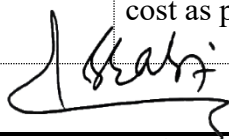
**Data Sheet**

1.1	<p>Name of the Assignment is: <b>Survey Study / Detailed Engineering Design &amp; Drawings, Preparation of Detailed Working Estimates, BOQ, / PC-I(s) Modified / Revised PC-I and Tender / Bidding Documents / Geotechnical / Hydrology Study / Preparation of IEE/EIA / Traffic Study / Socio Economic Assessment (SEA) / Soil Investigation Study and preparation of detail feasibility of following scheme.</b></p> <p>Construction of New 4-Lane Highway Bridge over River Indus between Hyderabad and Kotri</p> <p>The name(s), address(s), and telephone numbers of the Client's official(s) are:  <b>Executive Engineer          Provincial Highway Division, Hyderabad,          Near Faran Hotel Saddar Hyderabad          Telephone No. 022-9200068</b></p>
1.2	The method of selection is: <b>Quality and Cost Based Selection (QCBS)</b>
1.3	Financial Proposal to be upload together with Technical Proposal: <b>Yes</b>
1.4	The PA will provide the following inputs and facilities: Reports and documents available with the PA such as PC-II
1.5	<p>The Proposal submission address is: <b><u>Online EPAD</u></b></p> <p>Proposals must be upload no later than the following date and time:  <b>09-04-2026, 10:00 AM</b> and will be opened on the same day at <b>10.30 A.M</b></p>
1.6	Expected date for commencement of consulting services: As per commencement Order
9.1	Proposals validity that shall not be more than <b>90 days</b> after opening of Technical proposals.
10.1	Clarifications may be requested not later than five (05) days before the submission date.



Section II. Information to Consultants – Data Sheet

12	The Proposal as well as all related correspondence exchanged by the Consultants and the Procuring Agency shall be written in English However it is desirable that the firm's Personnel have a working knowledge of the national and regional languages of Islamic Republic of Pakistan.
6.1	Shortlisted Consultants may associate with other shortlisted Consultants: <b>No.</b>
11.2	The estimated number of professional staff-months required for the assignment is: <b>As indicated in TOR.</b>
13.1	The format of the Technical Proposal to be submitted is: <b>FTP</b>
13.2(vii)	Training is a specific component of this assignment: <b>No</b>
14.1	<p>List the applicable Reimbursable expenses.</p> <ol style="list-style-type: none"> <li>1. cost of necessary travel, including transportation of the Personnel by the most appropriate means of transport and the most direct practicable route;</li> <li>2. cost of office accommodation, investigations and surveys including riverine survey;</li> <li>3. Physical / hydraulic Model Study (Provisional Sum).</li> <li>4. Sub-soil investigation through boreholes (Provisional Sum)</li> <li>5. cost of applicable international or local communications such as the use of telephone and facsimile required for the purpose of Consulting Services;</li> <li>6. Environmental Impact Assessment and Submission of Report (Provisional Sum).</li> <li>7. Collection of Rainfall Data and historic river flow / discharge data</li> <li>8. cost, rental and freight of any instruments or equipment required to be provided by the Consultants for the purposes of Consulting Services;</li> <li>9. cost of printing and dispatching of the reports to be produced for Consulting Services;</li> <li>10. cost of such further items required for purposes of the Services not covered in the foregoing.</li> </ol> <p>Reimbursable expenses are to be included by Consultants in Consultancy Services cost as per FIN-5.</p>



Section II. Information to Consultants – Data Sheet

15.1	<p>Amounts payable by the PA to the Consultant under the contract to be subject to local taxation, stamp duty and service charges, Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>If Affirmative</p> <ul style="list-style-type: none"> <li>○ The Client will pay such taxes in behalf of the Consultant.</li> <li>○ The Consultant will pay such taxes <input checked="" type="checkbox"/></li> </ul>																																																																
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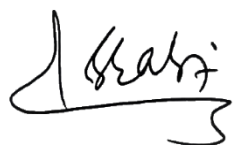
Section II. Information to Consultants – Data Sheet

	<p>All adopted sub-criteria should be specified in the RFP. The points allocated to each of the sub-criteria under “qualifications and competence of key staff” must be indicated in the RFP.</p> <p><b>The minimum technical score required to pass is: 75 Points</b></p> <p>The Weights given to the Technical and Financial Proposals are: Technical = 90% Financial = 10%</p> <p>Remuneration Type: Time Based The single currency for price evaluation is: <b>Pak Rupees</b></p>
20.1	Expected date and address for contract negotiations: <u>    </u> / <u>    </u> /2026
24.2	Successful consultant is required to submit performance security in form of bank guarantee ten percent (10%) of the contract amount).
5.1	Consultant undertake to sign Integrity Pact for the procurement estimated to exceed Pak Rs.2.5 million.



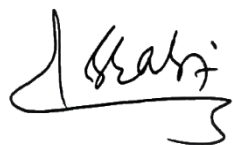
**Evaluation Criteria for Technical Proposals (Firm's Specific Experience)**

<b>S. No.</b>	<b>Description / Item</b>	<b>Maximum Marks</b>
1.	Project of Detailed Design of Bridge Over River Indus, each costing PKR 2 Billion (Construction Cost) or more in the last 18 Years. (06 Projects)	12
	Total Marks	12



**Evaluation Criteria for Technical Proposals (Firm's General Experience)**

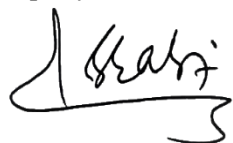
<b>S. No.</b>	<b>Description / Item</b>	<b>Maximum Marks</b>
2.	Project of Detailed Design and Construction of Roads/Highways and Bridges, each costing PKR 5 Billion (Construction Cost) or more in the last 15 Years (completed or in hand). (08 Projects)	08
	Total Marks	08



**Evaluation Criteria for Technical Proposals (Key Personnel)**

Sr. No.	Position	Minimum Experience		Qualification	Marking
		General	Specific*		
1.	Team Leader	20	15	Minimum B.Sc. (Civil Engineering preferably MS in Civil Engineering	
2.	Hydrology / Hydraulic Engineer	20	15	Minimum B.Sc. (Civil Engineering preferably MS	
3.	Senior Structural Design Engineer	15	12	Minimum B.Sc. (Civil Engineering, preferably MS in Structural Engineering	
4.	Traffic / Pavement Engineer	15	12	Minimum B.Sc. (Civil Engineering	
5.	Highway Design Engineer	12	10	Minimum B.Sc. (Civil Engineering	
6.	Structural Design Engineer	12	10	Minimum B.Sc. (Civil Engineering	
7.	Quantity Surveyor	15	12	Minimum DAE (Civil) of B.Sc. (Civil Engineering	

\*Specific: Roads & Bridges



## Section III. Technical Proposal - Standard Forms

[Comments in brackets] provide guidance to the shortlisted Consultants for the preparation of their Technical Proposals; they should be deleted from the Technical Proposals to be submitted.]

Form TECH-1.	Technical Proposal Submission Form.....	21
Form TECH-2.	Consultant's Organization and Experience .....	22
A - Consultant's Organization .....		22
B - Consultant's Experience .....		23
Form TECH-3.	Comments and Suggestions on the Terms of Reference and on Counterpart Staff and Facilities to be Provided by the PA.....	24
A - On the Terms of Reference .....		24
B - On Counterpart Staff and Facilities .....		25
Form TECH-4.	Description of Approach, Methodology and Work Plan for Performing the Assignment.....	26
Form TECH-5.	Team Composition and Task Assignments.....	27
Form TECH-6.	Curriculum Vitae (CV) for Proposed Professional Staff .....	28
Form TECH-7.	Staffing Schedule <sup>1</sup> .....	30
Form TECH-8.	Work Schedule .....	31

FORM TECH-1. TECHNICAL PROPOSAL SUBMISSION FORM

---

[Location, Date]

To: [Name and address of PA]

Dear Sirs:

We, the undersigned, offer to provide the consulting services for [Insert title of assignment] in accordance with your Request for Proposal dated [Insert Date] and our Proposal. We are hereby submitting our Proposal, which includes this Technical Proposal, and a Financial Proposal sealed under a separate envelope<sup>1</sup>.

We are submitting our Proposal in association with: [Insert a list with full name and address of each associated Consultant]<sup>2</sup>

We hereby declare that all the information and statements made in this Proposal are true and accept that any misinterpretation contained in it may lead to our disqualification.

If negotiations are held during the period of validity of the Proposal, i.e., before the date indicated in the Data Sheet, we undertake to negotiate on the basis of the proposed staff. Our Proposal is binding upon us and subject to the modifications resulting from Contract negotiations.

We undertake, if our Proposal is accepted, to initiate the consulting services related to the assignment not later than the date indicated in the Data Sheet.

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

Authorized Signature [In full and initials]: \_\_\_\_\_

Name and Title of Signatory: \_\_\_\_\_

Name of Firm: \_\_\_\_\_

Address: \_\_\_\_\_

---

1 [In case Paragraph Reference 1.2 of the Data Sheet requires to submit a Technical Proposal only, replace this sentence with: "We are hereby submitting our Proposal, which includes this Technical Proposal only."]

2 [Delete in case no association is foreseen.]

**For FTP Only**

**FORM TECH-2. CONSULTANT'S ORGANIZATION AND EXPERIENCE**

---

***A - Consultant's Organization***

*[Provide here a brief (two pages) description of the background and organization of your firm/entity and each associate for this assignment.]*

***B - Consultant's Experience***

*[Using the format below, provide information on each assignment for which your firm, and each associate for this assignment, was legally contracted either individually or as a corporate entity or as one of the major companies within an association, for carrying out consulting services similar to the ones requested under this assignment. Use 20 pages.]*

Assignment name:	Approx. value of the contract (in current US\$ or Euro):
Country: Location within country:	Duration of assignment (months):
Name of PA:	Total No of staff-months of the assignment:
Address:	Approx. value of the services provided by your firm under the contract (in current US\$ or Euro):
Start date (month/year): Completion date (month/year):	No of professional staff-months provided by associated Consultants:
Name of associated Consultants, if any:	Name of senior professional staff of your firm involved and functions performed (indicate most significant profiles such as Project Director/Coordinator, Team Leader):
Narrative description of Project:	
Description of actual services provided by your staff within the assignment:	

Firm's Name: \_\_\_\_\_

**For FTP Only**

**FORM TECH-3. COMMENTS AND SUGGESTIONS ON THE TERMS OF  
REFERENCE AND ON COUNTERPART STAFF AND FACILITIES TO BE  
PROVIDED BY THE PA**

---

***A - On the Terms of Reference***

*[Present and justify here any modifications or improvement to the Terms of Reference you are proposing to improve performance in carrying out the assignment (such as deleting some activity you consider unnecessary, or adding another, or proposing a different phasing of the activities). Such suggestions should be concise and to the point, and incorporated in your Proposal.]*

***B - On Counterpart Staff and Facilities***

*[Comment here on counterpart staff and facilities to be provided by the PA according to Paragraph Reference 1.4 of the Data Sheet including: administrative support, office space, local transportation, equipment, data, etc.]*

## FORM TECH-4. DESCRIPTION OF APPROACH, METHODOLOGY AND WORK PLAN FOR PERFORMING THE ASSIGNMENT

---

**(For small or very simple assignments the PA should omit the following text in Italic)**

*[Technical approach, methodology and work plan are key components of the Technical Proposal. You are suggested to present your Technical Proposal (50 pages, inclusive of charts and diagrams) divided into the following three chapters:*

- a) Technical Approach and Methodology,*
- b) Work Plan, and*
- c) Organization and Staffing,*

*a) Technical Approach and Methodology. In this chapter you should explain your understanding of the objectives of the assignment, approach to the services, methodology for carrying out the activities and obtaining the expected output, and the degree of detail of such output. You should highlight the problems being addressed and their importance, and explain the technical approach you would adopt to address them. You should also explain the methodologies you propose to adopt and highlight the compatibility of those methodologies with the proposed approach.*

*b) Work Plan. In this chapter you should propose the main activities of the assignment, their content and duration, phasing and interrelations, milestones (including interim approvals by the PA), and delivery dates of the reports. The proposed work plan should be consistent with the technical approach and methodology, showing understanding of the TOR and ability to translate them into a feasible working plan. A list of the final documents, including reports, drawings, and tables to be delivered as final output, should be included here. The work plan should be consistent with the Work Schedule of Form TECH-8.*

*c) Organization and Staffing. In this chapter you should propose the structure and composition of your team. You should list the main disciplines of the assignment, the key expert responsible, and proposed technical and support staff.]*

FORM TECH-5. TEAM COMPOSITION AND TASK ASSIGNMENTS

---

Professional Staff				
Name of Staff	Firm	Area of Expertise	Position Assigned	Task Assigned

**FORM TECH-6. CURRICULUM VITAE (CV) FOR PROPOSED  
PROFESSIONAL STAFF**

---

1. **Proposed Position** *[only one candidate shall be nominated for each position]:* \_\_\_\_\_
  
2. **Name of Firm** *[Insert name of firm proposing the staff]:* \_\_\_\_\_  
\_\_\_\_\_
  
3. **Name of Staff** *[Insert full name]:* \_\_\_\_\_
  
4. **Date of Birth:** \_\_\_\_\_ **Nationality:** \_\_\_\_\_
  
5. **Education** *[Indicate college/university and other specialized education of staff member, giving names of institutions, degrees obtained, and dates of obtainment]:* \_\_\_\_\_  
\_\_\_\_\_
  
6. **Membership of Professional Associations:** \_\_\_\_\_  
\_\_\_\_\_
  
7. **Other Training** *[Indicate significant training since degrees under 5 - Education were obtained]:* \_\_\_\_\_  
\_\_\_\_\_
  
8. **Countries of Work Experience:** *[List countries where staff has worked in the last ten years]:* \_\_\_\_\_  
\_\_\_\_\_
  
9. **Languages** *[For each language indicate proficiency: good, fair, or poor in speaking, reading, and writing]:*  
\_\_\_\_\_
  
10. **Employment Record** *[Starting with present position, list in reverse order every employment held by staff member since graduation, giving for each employment (see format here below): dates of employment, name of employing organization, positions held.]:*

From [Year]: \_\_\_\_\_ To [Year]: \_\_\_\_\_

Employer: \_\_\_\_\_

Positions held: \_\_\_\_\_

<p><b>11. Detailed Tasks Assigned</b></p> <p><i>[List all tasks to be performed under this assignment]</i></p>	<p><b>12. Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned</b></p> <p><i>[Among the assignments in which the staff has been involved, indicate the following information for those assignments that best illustrate staff capability to handle the tasks listed under point 11.]</i></p> <p>Name of assignment or project: _____</p> <p>Year: _____</p> <p>Location: _____</p> <p>PA: _____</p> <p>Main project features: _____</p> <p>Positions held: _____</p> <p>Activities performed: _____</p>
--	--

**13. Certification:**

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes me, my qualifications, and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.

\_\_\_\_\_ Date: \_\_\_\_\_  
*[Signature of staff member or authorized representative of the staff]* *Day/Month/Year*

Full name of authorized representative: \_\_\_\_\_

### FORM TECH-7. STAFFING SCHEDULE<sup>1</sup>

N°	Name of Staff	Staff input (in the form of a bar chart) <sup>2</sup>														Total staff-month input		
		1	2	3	4	5	6	7	8	9	10	11	12	n	Home	Field <sup>3</sup>	Total	
<b>Foreign</b>																		
1		[Home]																
		[Field]																
2																		
3																		
n																		
														<b>Subtotal</b>				
<b>Local</b>																		
1		[Home]																
		[Field]																
2																		
n																		
														<b>Subtotal</b>				
														<b>Total</b>				

- 1 For Professional Staff the input should be indicated individually; for Support Staff it should be indicated by category (e.g.: draftsmen, clerical staff, etc.).
- 2 Months are counted from the start of the assignment. For each staff indicate separately staff input for home and field work.
- 3 Field work means work carried out at a place other than the Consultant's home office.

Full time input
  Part time input



## Section IV. Financial Proposal - Standard Forms

*[Comments in brackets [ ] provide guidance to the shortlisted Consultants for the preparation of their Financial Proposals; they should be deleted from the Financial Proposals to be submitted.]*

Financial Proposal Standard Forms shall be used for the preparation of the Financial Proposal according to the instructions provided under para. 3.6 of Section 2. Such Forms are to be used whichever is the selection method indicated in para. 4 of the Letter of Invitation.

*[The Appendix “Financial Negotiations - Breakdown of Remuneration Rates” is to be only used for financial negotiations when Quality-Based Selection, Selection Based on Qualifications, or Single-Source Selection method is adopted, according to the indications provided under para. 6.3 of Section 2.]*

Form FIN-1.	Financial Proposal Submission Form .....	33
Form FIN-2.	Summary of Costs.....	34
Form FIN-3.	Breakdown of Costs by Activity <sup>1</sup> .....	35
Form FIN-4.	Breakdown of Remuneration <sup>1</sup> .....	36
Form FIN-4.	Breakdown of Remuneration <sup>1</sup> .....	38
Form FIN-5.	Breakdown of Reimbursable Expenses <sup>1</sup> .....	39
Form FIN-5.	Breakdown of Reimbursable Expenses.....	41
<b>Appendix.</b>	Financial Negotiations - Breakdown of Remuneration Rates.....	42

FORM FIN-1. FINANCIAL PROPOSAL SUBMISSION FORM

---

[Location, Date]

To: [Name and address of PA]

Dear Sirs:

We, the undersigned, offer to provide the consulting services for [Insert title of assignment] in accordance with your Request for Proposal dated [Insert Date] and our Technical Proposal. Our attached Financial Proposal is for the sum of [Insert amount(s) in words and figures<sup>1</sup>].

Our Financial Proposal shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity period of the Proposal, i.e. before the date indicated in Paragraph Reference 1.12 of the Data Sheet.

Commissions and gratuities paid or to be paid by us to agents relating to this Proposal and Contract execution, if we are awarded the Contract, are listed below<sup>2</sup>:

Name and Address of Agents	Amount and Currency	Purpose of Commission or Gratuity
_____	_____	_____
_____	_____	_____
_____	_____	_____

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

Authorized Signature [In full and initials]: \_\_\_\_\_  
Name and Title of Signatory: \_\_\_\_\_  
Name of Firm: \_\_\_\_\_  
Address: \_\_\_\_\_

- 
- 1 Amounts must coincide with the ones indicated under Total Cost of Financial proposal in Form FIN-2.
  - 2 If applicable, replace this paragraph with: "No commissions or gratuities have been or are to paid by us to agents relating to this Proposal and Contract execution."

FORM FIN-2. SUMMARY OF COSTS

---

Item	Costs	
	<i>Indicate Foreign Currency</i>	<i>Indicate Local Currency</i>
Total Costs of Financial Proposal <sup>2</sup>		

- 1 Indicate between brackets the name of the foreign currency. Maximum of three currencies; use as many columns as needed, and delete the others.
- 2 Indicate the total costs excluding local taxes to be paid by the PA in each currency. Such total costs must coincide with the sum of the relevant Subtotals indicated in all Forms FIN-3 provided with the Proposal.

**FORM FIN-3. BREAKDOWN OF COSTS BY ACTIVITY<sup>1</sup>**

<b>Group of Activities (Phase):<sup>2</sup></b>  _____	<b>Description:<sup>3</sup></b>  _____			
Cost component	<b>Costs</b>			
	<i>[Indicate Foreign Currency # 1]<sup>4</sup></i>	<i>[Indicate Foreign Currency # 2]<sup>4</sup></i>	<i>[Indicate Foreign Currency # 3]<sup>4</sup></i>	<i>[Indicate Local Currency]</i>
Remuneration <sup>5</sup>				
Reimbursable Expenses <sup>5</sup>				
Subtotals				

- 1 Form FIN-3 shall be filled at least for the whole assignment. In case some of the activities require different modes of billing and payment (e.g.: the assignment is phased, and each phase has a different payment schedule), the Consultant shall fill a separate Form FIN-3 for each group of activities. For each currency, the sum of the relevant Subtotals of all Forms FIN-3 provided must coincide with the Total Costs of Financial Proposal indicated in Form FIN-2.
- 2 Names of activities (phase) should be the same as, or correspond to the ones indicated in the second column of Form TECH-8.
- 3 Short description of the activities whose cost breakdown is provided in this Form.
- 4 Indicate between brackets the name of the foreign currency. Use the same columns and currencies of Form FIN-2.
- 5 For each currency, Remuneration and Reimbursable Expenses must respectively coincide with relevant Total Costs indicated in Forms FIN-4, and FIN-5.

## FORM FIN-4. BREAKDOWN OF REMUNERATION<sup>1</sup>

(This Form FIN-4 shall only be used when it is indicated in Reference Paragraph 5.6 of the Data Sheet that remuneration shall be Time Based)

<b>Group of Activities (Phase):</b> _____							
Name <sup>2</sup>	Position <sup>3</sup>	Staff-month Rate <sup>4</sup>	Input <sup>5</sup> (Staff-months)	[Indicate Foreign Currency # 1] <sup>6</sup>	[Indicate Foreign Currency # 2] <sup>6</sup>	[Indicate Foreign Currency # 3] <sup>6</sup>	[Indicate Local Currency] <sup>6</sup>
<b>Foreign Staff</b>							
		[Home]-----					
		[Field]-----					
		-----					
		-----					
		-----					
		-----					
		-----					
<b>Local Staff</b>							
		[Home]-----					
		[Field]-----					
		-----					
		-----					
<b>Total Costs</b>							

- 1 Form FIN-4 shall be filled for each of the Forms FIN-3 provided.
- 2 Professional Staff should be indicated individually; Support Staff should be indicated per category (e.g.: draftsmen, clerical staff).
- 3 Positions of Professional Staff shall coincide with the ones indicated in Form TECH-5.
- 4 Indicate separately staff-month rate and currency for home and field work.
- 5 Indicate, separately for home and field work, the total expected input of staff for carrying out the group of activities or phase indicated in the Form.
- 6 Indicate between brackets the name of the foreign currency. Use the same columns and currencies of Form FIN-2. For each staff indicate the remuneration in the column of the relevant currency, separately for home and field work. Remuneration = Staff-month Rate x Input.



**FORM FIN-5. BREAKDOWN OF REIMBURSABLE EXPENSES<sup>1</sup>**

(This Form FIN-5 shall only be used when it is indicated in Reference Paragraph 5.6 of the Data Sheet that remuneration shall be Time Based)

<b>Group of Activities (Phase): _____</b>								
<b>N°</b>	<b>Description<sup>2</sup></b>	<b>Unit</b>	<b>Unit Cost<sup>3</sup></b>	<b>Quantity</b>	<i>[Indicate Foreign Currency # 1]<sup>4</sup></i>	<i>[Indicate Foreign Currency # 2]<sup>4</sup></i>	<i>[Indicate Foreign Currency # 3]<sup>4</sup></i>	<i>[Indicate Local Currency]<sup>4</sup></i>
1	Cost of necessary travel, including transportation of the Personnel by the most appropriate means of transport and the most direct practicable route							
2	Cost of office accommodation, investigations and surveys including riverine survey							
3	Physical / hydraulic Model Study	PS		---				
4	Sub-soil investigation through boreholes	PS		---				
5	Cost of applicable international or local communications such as the use of telephone and facsimile required for the purpose of Consulting Services							
6	Environmental Impact Assessment and Submission of Report							
7	Collection of Rainfall Data and historic river flow / discharge data							
8	Cost, rental and freight of any instruments or equipment required to be provided by the							

	Consultants for the purposes of Consulting Services							
9	Cost of printing and dispatching of the reports to be produced for Consulting Services							
10	Other allowances where applicable and provisional or fixed sums (if any); and							
11	Cost of such further items required for purposes of the Services not covered in the foregoing							
Total Costs								

1. Form FIN-5 should be filled for each of the Forms FIN-3 provided, if needed.
2. Delete items that are not applicable or add other items according to Paragraph Reference 3.6 of the Data Sheet.
3. Indicate unit cost and currency.
4. Indicate between brackets the name of the foreign currency. Use the same columns and currencies of Form FIN-2. Indicate the cost of each reimbursable item in the column of the relevant currency. Cost = Unit Cost x Quantity.
5. Indicate route of each flight, and if the trip is one- or two-ways.
6. Only if the training is a major component of the assignment, defined as such in the TOR.

---

**FORM FIN-5. BREAKDOWN OF REIMBURSABLE EXPENSES**


---

(This Form FIN-5 shall only be used when it is indicated in Reference Paragraph 5.6 of the Data Sheet that remuneration shall be Lump Sum. Information to be provided in this Form shall only be used to establish payments to the Consultant for possible additional services requested by the PA)

<b>N°</b>	<b>Description<sup>1</sup></b>	<b>Unit</b>	<b>Unit Cost<sup>2</sup></b>
	Per diem allowances	Day	
	International flights <sup>3</sup>	Trip	
	Miscellaneous travel expenses	Trip	
	Communication costs between [ <i>Insert place</i> ] and [ <i>Insert place</i> ]		
	Drafting, reproduction of reports		
	Equipment, instruments, materials, supplies, etc.		
	Shipment of personal effects	Trip	
	Use of computers, software		
	Laboratory tests.		
	Subcontracts		
	Local transportation costs		
	Office rent, clerical assistance		
	Training of the PA's personnel <sup>4</sup>		

- 1 Delete items that are not applicable or add other items according to Paragraph Reference 3.6 of the Data Sheet.
- 2 Indicate unit cost and currency.
- 3 Indicate route of each flight, and if the trip is one- or two-ways.
- 4 Only if the training is a major component of the assignment, defined as such in the TOR.

**APPENDIX. FINANCIAL NEGOTIATIONS - BREAKDOWN OF  
REMUNERATION RATES**

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(Not to be used when cost is a factor in the evaluation of Proposals)

**1. Review of Remuneration Rates**

1.1 The remuneration rates for staff are made up of salary, social costs, overheads, fee that is profit, and any premium or allowance paid for assignments away from headquarters. To assist the firm in preparing financial negotiations, a Sample Form giving a breakdown of rates is attached (no financial information should be included in the Technical Proposal). Agreed breakdown sheets shall form part of the negotiated contract.

1.2 The PA is charged with the custody of funds from Government of Sindh and is expected to exercise prudence in the expenditure of these funds. The PA is, therefore, concerned with the reasonableness of the firm's Financial Proposal, and, during negotiations, it expects to be able to review audited financial statements backing up the firm's remuneration rates, certified by an independent auditor. The firm shall be prepared to disclose such audited financial statements for the last three years, to substantiate its rates, and accept that its proposed rates and other financial matters are subject to scrutiny. Rate details are discussed below.

**(i) Salary**

This is the gross regular cash salary paid to the individual in the firm's home office. It shall not contain any premium for work away from headquarters or bonus.

**(ii) Social Costs**

Social costs are the costs to the firm of staff's non-monetary benefits. These items include, *inter alia*, social security including pension, medical and life insurance costs, and the cost of a staff member being sick or on vacation. In this regard, the cost of leave for public holidays is not an acceptable social cost nor is the cost of leave taken during an assignment if no additional staff replacement has been provided. Additional leave taken at the end of an assignment in accordance with the firm's leave policy is acceptable as a social cost.

**(iii) Cost of Leave**

The principles of calculating the cost of total days leave per annum as a percentage of basic salary shall normally be as follows:

$$\text{Leave cost as percentage of salary}^1 = \frac{\text{total days leave} \times 100}{[365 - w - ph - v - s]}$$

---

<sup>1</sup> Where *w* = weekends, *ph* = public holidays, *v* = vacation, and *s* = sick leave.

It is important to note that leave can be considered a social cost only if the PA is not charged for the leave taken.

**(iv) Overheads**

Overhead expenses are the firm's business costs that are not directly related to the execution of the assignment and shall not be reimbursed as separate items under the contract. Typical items are home office costs (partner's time, nonbillable time, time of senior staff monitoring the project, rent, support staff, research, staff training, marketing, etc.), the cost of staff not currently employed on revenue-earning projects, taxes on business activities and business promotion costs. During negotiations, audited financial statements, certified as correct by an independent auditor and supporting the last three years' overheads, shall be available for discussion, together with detailed lists of items making up the overheads and the percentage by which each relates to basic salary. The PA does not accept an add-on margin for social charges, overhead expenses, etc., for staff who are not permanent employees of the firm. In such case, the firm shall be entitled only to administrative costs and fee on the monthly payments charged for subcontracted staff.

**(v) Fee or Profit**

The fee or profit shall be based on the sum of the salary, social costs, and overhead. If any bonuses paid on a regular basis are listed, a corresponding reduction in the profit element shall be expected. Fee or profit shall not be allowed on travel or other reimbursable expenses, unless in the latter case an unusually large amount of procurement of equipment is required. The firm shall note that payments shall be made against an agreed estimated payment schedule as described in the draft form of the contract.

**(vi) Away from Headquarters Allowance or Premium**

Some Consultants pay allowances to staff working away from headquarters. Such allowances are calculated as a percentage of salary and shall not draw overheads or profit.

**(vii) Subsistence Allowances**

Subsistence allowances are not included in the rates, but are paid separately and in local currency. No additional subsistence is payable for dependents—the subsistence rate shall be the same for married and single team members.

Standard rates for the particular country may be used as reference to determine subsistence allowances.

**2. Reimbursable expenses**

- 2.1 The financial negotiations shall further focus on such items as out-of-pocket expenses and other reimbursable expenses. These costs may include, but are not restricted to, cost of surveys, equipment, office rent, supplies, international and local travel, computer

rental, mobilization and demobilization, insurance, and printing. These costs may be either unit rates or reimbursable on the presentation of invoices, in foreign or local currency.

**3. PA Guarantee**

- 3.1 Payments to the firm, including payment of any advance based on cash flow projections covered by a PA guarantee, shall be made according to an agreed estimated schedule ensuring the consultant regular payments in local and foreign currency, as long as the services proceed as planned.

## Sample Form

Consulting Firm:  
Assignment:

Country:  
Date:

### Consultant's Representations Regarding Costs and Charges

We hereby confirm that:

- (a) the basic salaries indicated in the attached table are taken from the firm's payroll records and reflect the current salaries of the staff members listed which have not been raised other than within the normal annual salary increase policy as applied to all the firm's staff;
- (b) attached are true copies of the latest salary slips of the staff members listed;
- (c) the away from headquarters allowances indicated below are those that the Consultants have agreed to pay for this assignment to the staff members listed;
- (d) the factors listed in the attached table for social charges and overhead are based on the firm's average cost experiences for the latest three years as represented by the firm's financial statements; and
- (e) said factors for overhead and social charges do not include any bonuses or other means of profit-sharing.

\_\_\_\_\_  
*[Name of Consulting Firm]*

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Date

Name: \_\_\_\_\_

Title: \_\_\_\_\_

**Consultant’s Representations Regarding Costs and Charges**

(Expressed in *[insert name of currency]*)

Personnel		1	2	3	4	5	6	7	8
Name	Position	Basic Salary per Working Month/Day/Year	Social Charges <sup>1</sup>	Overhead <sup>1</sup>	Subtotal	Fee <sup>2</sup>	Away from Headquarters Allowance	Proposed Fixed Rate per Working Month/Day/Hour	Proposed Fixed Rate per Working Month/Day/Hour <sup>1</sup>
Home Office									
Field									

- 1. Expressed as percentage of 1
- 2. Expressed as percentage of 4

## **Section V. Terms of Reference (TOR)**

## Chapter-1

### Introduction

#### 1.1 Background and Need Assessment:

Likewise, all the urban centers of country suburbs of Hyderabad city and Kotri are exceptionally expanding under the pressure of urbanization and population growth. Due to saturation of development and high value of property in main city areas, new developments not only are being emerging during preceding decades in the outskirts of cities but continuously expanding. To meet the increasing demand of urbanization numbers of developments are in offing as well are being implementing. Beside these developments population is also expanding in suburbs of cities and development and improvements of existing infrastructure have become imperative to match the pace and shape of urbanization / development. In the surrounding areas other than new development, old villages, poultry farms, agricultural farms and vegetable and fruit farms are located which are connected to market placed through local connecting roads. With the shape and pace of urban development traffic in urban areas is increasing with much faster rate and pace, resulting in frequent traffic jams and congestion particularly in peak hours.

The effects of urbanization and increasing traffic have inevitably worsened the traffic flow conditions at the Hyderabad Bypass Bridge and the Kotri Railroad Bridge. Traffic congestion during peak hours has become frequent at the Hyderabad Bypass Bridge and is even more severe at the Kotri Railroad Bridge due to its constrained geometric design.

In a scenario where traffic is increasing manifold and the capacity of existing river crossings is constrained, the need for a new connection across the river, such as the proposed four-lane bridge over the Indus downstream of the existing Hyderabad Bypass Bridge, becomes essential. This new crossing is required to ensure the safety and mobility of the growing traffic, serving both local urban commuters and through traffic to up-country destinations.

To meet the increasing demand of urbanization numbers of developments are in offing as well are being implementing. Beside these developments population is also expanding in suburbs of cities and development and improvements of existing infrastructure have become imperative to match the pace and shape of urbanization / development. In a scenario where traffic is increasing manifold and the capacity of existing river crossings is constrained, the need for a new connection across the river, such as the proposed four-lane bridge over the Indus downstream of the existing Hyderabad Bypass Bridge, becomes essential. This new crossing is required to ensure the safety and mobility of the growing traffic, serving both local urban commuters and through traffic to up-country destinations.

#### 1.2 Project Objectives:

Most of the small and medium size cities of Pakistan are concentrated along major highways as ribbon development and along river Indus. One third of the population of Pakistan lives in these cities and remaining two third populations live in small rural villages. The cities along the highways and along the river Indus acts as the access centers for smaller villages and provides goods and services that are available in cities.

The industrial output of GDP which is approximately the quarter of the country's GDP is concentrated in few large cities. The rural two third populations generate approximately another quarter of country's GDP in terms of primary sector output. The remaining half of the GDP is produced by tertiary sector is also concentrated in major cities. This diversity of output locations of GDP and concentration of population requires considerable intense movement of goods for local consumption between cities and rural areas and generates demand and supply gap when the pace of infrastructure development lagging behind of the pace of economic development.

The proposed project area is also influenced by diversity of GDP output locations and population concentration, which creates intense demand for movements of goods beside the movements for social, health and educational requirements of the population. River Indus poses as a natural barrier between the urban and rural areas located at east and west bank of Indus. As the movement demand between urban and rural areas is intense therefore the existing traffic is compelled to travel through existing crossing points thus resulting in high Vehicle Operating Costs (VOC). The provisions of more bridges over river Indus will naturally attract the traffic due to reason as discussed above and improve and strengthen the urban and rural economy due to availability of easy, safe and cost-effective transportation infrastructure with reduced cost of manufacturing and transshipment.

### **1.3 Objectives of the Study / Survey:**

- i. Survey Study.
- ii. Geotechnical Investigation.
- iii. Hydrology Study.
- iv. Preparation of IEE/EIA.
- v. Traffic Study.
- vi. Socio Economic Assessment (SEA).
- vii. Detailed Engineering Design.
- viii. Preparation of Bill of Quantities (BOS) & Engineer's Estimate.
- ix. Preparation of PC-I.
- x. Preparation of Tender / bidding documents for floating the Tenders.



## Chapter-2

### Description of Project

#### 2.1 Location of Project:

The proposed bridge shall be located downstream of the existing Hyderabad Bypass Bridge and upstream of the Mehran Railway Bridge. The full alignment will connect to the existing roads and highways on both banks of the Indus River. To achieve this, additional structures will be required, including a bridge across the canal and RBOD, a bridge over the railway track, and other connecting road links.

#### 2.2 Time Start:

The services shall be commenced after immediately after the signing of the contract agreement

#### 2.3 Time Period:

The project is schedule to be completed in Six (06) Months time.



## Chapter-3

### Scope of Work

#### 3.1 DETAILED SCOPE OF WORK COVERING DESIGN PARAMETERS:

The Scope of Work for the present Terms of Reference (TOR) comprises of following but not limited to:

##### Stage I

- Data Collection/Co-ordination with local Departments (All Provincial and Federal)
- Desk study and Reconnaissance visit.
- Alignment options and recommended alignment.
- Satellite image of entire corridor with recommended option duly marked on it.
- Presentation of alignment for approval from Client and drone videos.
- Traffic count & O&D survey
- Inventory for structures, Bridges and Interchanges (if any) after detailed field visit
- Hydrology of the area and hydraulics of major rivers
- 

Note: *Stage II and Stage III will be undertaken after the approval of Stage I.*

##### Stage II

- Detailed topographic survey and riverine survey for conducting physical model study.
- Physical / hydraulic Model Study.
- Detailed soil investigation survey on the proposed alignment
- Identification of quarry sites and construction material survey
- Geotechnical Investigation survey for bridges and structures
- Remedial measures for scouring etc. if any
- Design of Toll Plazas
- Geometric Design
- Road furniture design including traffic signs and gantries
- Hydrology & Hydraulic design of structures
- Hydraulic Model Study
- Structure Design
- Horticulture and Landscaping of intersections
- Traffic survey and Axle load survey or collection of data from nearby weigh stations
- Pavement Design with surface and subsurface drainage
- Feasibility Study with approximate cost estimates on best effort basis



### **Stage III**

- Tender Documents, BOQ, Engineer's Estimate PC-1 / Revised / Modified PC-I as per P&D / Planning Commission Guide line.
- Stakeout of design alignment after approval for ground validation.
- Utility folders and Land acquisition plans using imageries, cadastral maps on GIS
- Fixation of ROW markers when required by the Client.
- Training of CLIENT Engineers in field and at consultant's head-office premises and hiring of (2 Trainee Engineers during the design period along with TA/DA)
- Preparation of PC-1 / Revised / Modified.

## **3.2 GOVERNING DESIGN STANDARDS**

### **3.2.1 STANDARD FOR STRUCTURES:**

#### **3.2.1.1 DESIGN CODES FOR STRUCTURES:**

For analysis and design of structures following codes, standards and loads will be adopted.

##### **i. AASHTO (Latest Edition):**

For analysis and design for all loads and load combinations.

##### **ii. Pakistan Highway Code of practice for Bridges 1967:**

For vehicular loads, their spacing & impact factors.

##### **iii. UBC/IBC 2003:**

For seismic zoning in addition to the revised seismic risk map of Pakistan.

##### **iv. ASTM:**

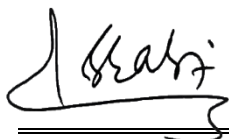
For material specifications & testing.

##### **v. ACI:**

For analysis, design and detailing, only in case such details are not specified in AASHTO.

##### **vi. Vehicles live load:**

West Pakistan Code of Practice for Highway Bridges 1967 (WPCHB) specifies more severe loads to be considered in combination with other loads such as dead load etc.



**vii. Class AA loading:**

The 70-Ton tracked military vehicle to be placed in accordance with WPCHB to give maximum stresses.

**viii. Class A loading:**

The 54.5 Ton train of trailers (with different axle loads) to be placed in accordance with WPCHB to give maximum stresses.

**ix. Check Deck Slab for Punching Shear:**

Additionally, the bridge deck slab shall be checked in Punching Shear for a Wheel Load of 21,000 Pounds [95 KN].on 0.25 x 0.5m<sup>2</sup>tire contact area.

**OTHER LOADS**

**x. Side walk live load:**

A load of 5 KN/m<sup>2</sup> (100 psf) of walkway between side barrier/railing and shoulder, to produce maximum stresses in the member under consideration.

**xi. Horizontal live load on railing/posts of side barrier:**

These depend upon the configuration of the railing/posts/ barrier system. The position and the magnitude of the horizontal loads are taken according to Article 2.7 of AASHTO.

**xii. Impact load**

Impact loading on the bridge superstructure is taken in accordance with WPCHB.

**xiii. Wind loads**

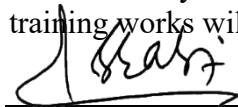
Wind loads are taken in accordance with the provision of WPCHB.

**xiv. Seismic design**

International Building Code (IBC-2003) and Earthquake forces are calculated according to article 3.21 of AASHTO, keeping in view the recent of October 8, 2005, the earth quake zones will be considered accordingly.

**3.2.1.2 RIVER TRAINING WORKS:**

Guide Banks, spurs and protection works will be designed for high flood discharge and flow pattern determined by design calculations and hydraulic model study. Detail Drawings of the River/nullah training works will form part of Hydraulic Report and Tender Package.



### 3.2.2 ROAD DESIGN STANDARDS:

Design Standards and criteria for Highway and Structures is tabulated here as under:-

#### 3.2.2.1 BRIDGE DETAILS:

The bridge details shall be shown on a separate drawing for each bridge. The bridge observations in form of coordinates shall include the following:-

Description	4-Lane
a. Design Speed (kph)	
b. Road Cross Section	
(1) Lane Width (m)	3.65
(2) No. of Lanes	4
(3) Paved Shoulder	
(a) Outer (m)	3.0
(b) Inner (m)	1.8
c. Carriageway Cross Slope	
(1) Pavement	2%
(2) Shoulder	
(3) Outer shoulder	4%
(4) Inner shoulder	4%
d. Horizontal Alignment	
Maximum super elevation	6%

Above standards are derived from "A Policy on Geometric Design of Highway & Streets 2003". Any Design element not mentioned above should conform to the same design guide for Rural Arterial standard.

### 3.3 GOVERNING STANDARD PROCEDURES:

For analysis and design of structures following codes, standards and loads will be adopted.

#### i. AASHTO LRFD (Latest Edition):

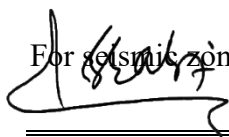
For analysis and design for all loads and load combinations.

#### ii. Pakistan Highway Code of practice for Bridges 1967:

For vehicular loads, their spacing & impact factors.

#### iii. UBC/IBC 2003:

For seismic zoning in addition to the revised seismic risk map of Pakistan.



**iv. ASTM:**

For material specifications & testing.

**v. ACI:**

For analysis, design and detailing, only in case such details are not specified in AASHTO.

**vi. HIGHWAY DESIGN STANDARDS:**

A Policy on Geometric Design of Highway & Streets -Latest Edition". Any Design element not mentioned above should conform to the same design guide for Rural Arterial standard and latest AASHTO codes for highways.

**vii. ROADSIDE DESIGN STANDARDS:**

Roadside design pertains to the design of area between the outside shoulder edge and ROW limits. It involves safe design of features like embankment slopes, cut slopes, roadside clearances, roadside drainage slopes, design of road signs and luminaire with breakaway supports, roadside barriers and bridge railings etc. The AASHTO Road Side Design Guide Jan, 1996 shall be followed.

**4. DELIVERABLES:**

The Consultant shall submit the following reports:

- Inception Report
- Topographic and Survey Report
- Traffic Study Report
- Hydrological and Hydraulic Study Report
- Geotechnical Investigation Report
- Detailed Feasibility Study Report
- Detailed Engineering Design and Drawings
- Detailed Engineering Estimates and BOQ



## Chapter-4

### Task assignment

<b>Task 1:</b>	Data Collection & Co-ordination with any local / Federal / Provincial / District / Irrigation Departments.
<b>Approximate Duration:</b>	10 Days
<b>Outcome:</b>	Consultant get hold of relevant Information, Maps, Satellite imageries and liaison with local department/police

#### 4.1 Data Collection & Co-ordination with any local / Federal / Provincial / District / Irrigation Departments:

Immediately after signing of the Contract, the consultant will get possession of the relevant maps, reports and imageries for the detailed design of the Project. In case any authorization is required by the concerned office for delivering the required information, same shall be provided by CLIENT in the form of Authority letter. The Consultant should inform the concerned departments before conducting all types of field surveys. Before planning the field reconnaissance, the consultant should co-ordinate meeting with the local city development / Highway Department to know any future plans for city expansion etc. Tips for design of Bypasses shall be obtained as per local requirements.

As the construction of Bridge affects the free board of existing flood protection bunds (Due to afflux). And already to incorporate already existing irrigation structures in to design, Consultant shall coordinate with local irrigation office to get the required impact established in terms of raising, strengthening the marginal bunds and incorporating existing irrigation structures in design. Computation of costs to Client in deliberation with Irrigation shall be responsibility of the Consultant.

<b>Task 2:</b>	Reconnaissance Visit and Alignment Report
<b>Approximate Duration:</b>	20 Days
<b>Outcome:</b>	Consultant shall submit an Alignment report as per requirements of the Model Study Report. Consultant should submit Inception Report Approval of alignment in presentation to the Client

#### 4.2 Reconnaissance Visit with Identification of Alignment Alternatives:

After the completion of the Task 1, the consultant shall carry out the desk study of proposed alignment as per Model study, using maps and imageries. Same shall then be investigated in the field reconnaissance. The site visits shall be carried out by a senior highway engineer and senior structural engineer of not less than 15 years of experience. Coordinated meetings with local departments shall be done and minutes recorded (same shall be made part of the Alignment report).

During the reconnaissance visit, particular requirements of project shall be identified that will be addressed in the detailed design. Other requirement of Task-2 is the submission of Inception Report. Inception Report should elaborate the methodologies for detail design for requirements spelled out in the TOR and observations made in the site visit.

After submission of Alignment report and Inception report, the Consultant will give his presentation to the Competent Authority in Client Office for approval of alignment.

In the reconnaissance visit, consultant should record some Geographic Co-ordinates of physical features on ground using GPS (Dual Frequency high accuracy). It shall be used in geo-referencing/north-rectification of the satellite imageries.

At the reconnaissance stage social, economic and environmental aspects shall be considered. The resulting information will form part of the recommendations for adoption of a particular corridor.

Data from various sources shall be collected at this stage:

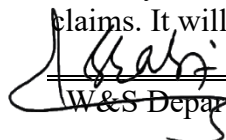
- Topographic Maps
- Geological reports available if any (from local departments, adjacent projects)
- Use of Satellite imagery
- Agriculture soil reports
- Soil survey maps (Soil survey of Pakistan)

<b>Task 3:</b>	Detailed Topographic Survey and Riverine Survey
<b>Approximate Duration:</b>	45 Days
<b>Outcome:</b>	Consultant will get approval of Topographic survey Program Submit survey Report Submit Draft and Final Topographic Plans

#### **4.3 Detailed Topographic Survey (Pre-requisites):**

Topographic Survey (approx. 12Km. upstream and 5 Kms. downstream) from right flood protect bund to left protection bund, clearly indicating all buildings, utilities, pipelines, existing bridges if any, approaches and all other manmade structures. The approximate outlines of the river, direction of flow, angle of skew and reference to position of the bench mark used as datum shall also be clearly shown. In addition, the lines showing the location of Cross Sections and Longitudinal Sections shall also be shown. In order to indicate the dominant course, the course of the river or the stream over a five (5) year period should be shown. Topographic survey shall include the corridor survey of approaches at the both ends of bridge and the sufficiently wide area along the approached where other bridges will be required such as bridge at canal / RBOD, at existing link roads, at railway track etc.

Topographic survey shall form the basis for the detailed design. Poor quality of survey work produces not only incorrect designs but also results in post construction problems with variations in cost and claims. It will be ensured by Client that the Survey work is of top most order.



As per recent "Surveying & Mapping Act 2014" The Survey company must comply with the requirement of the Act.

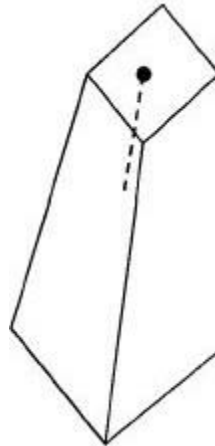
It is therefore recommended that consultant should use the latest technology for the topographic surveys, which include as many GPSDF for establishment of high accuracy control points. In case the consultant does not have the requisite number of GPSDF, he is advised to hire services of professional survey companies having the required expertise. The GPSDF shall be simultaneously used on SOP Bench Marks as well as BMs established for the Projects (Start and End).

Before mobilizing to site for Survey, the consultant shall submit to the Client detailed topographic survey program with actual human resources planned to be deployed. The consultant shall specify the time line of survey program. Total number of equipment with models and calibration certificates not more than 6 months old shall be produced. The name and qualifications of surveyors shall also be submitted. Client reserves the right interview the surveyor if required. Upon request, the consultant should change the surveyor. If consultant wants to outsource the Surrey work, it will be mandatory to take prior approval of the Client. Client will ensure that the survey firm is not black listed and has sufficient resources and compliance of Surveying and Mapping ACT 2014.

#### 4.3.1 Survey Monuments:

The type and dimensions of Survey monuments to be installed at site is shown here.

Besides start and at the end, it is required that these markers shall be fixed in the traverse line at an interval of about 300 to 400 meters. These shall be fixed at such locations that these are least susceptible to disturbance and damage. The consultant shall fill out a Performa for each traverse station as attached in Annexure II.



Permanent Ground Monument made of Concrete 1:4:8 with 75 mm steel nail embedded at centre. Using spray paint and a stencil, the monument number shall be painted.  
The size of monument shall be 150 mm square at top and 300 mm square at bottom. The height of monument shall be 900 mm. Out of which 750mm shall be buried in the ground.

##### 4.3.1.1 Control for Traverse:

Projection: UTM  
Datum: WGS84  
Vertical Datum: MSL

##### 4.3.1.2 Horizontal Control:

Precise Primary Controls (ITRF CONTROLS)

Minimum three (3) DGPS Primary Controls at start and End of the Project or as many as may be required such that the distance between these points shall not be more than 5 kms. Minimum

observation time shall be at least ten (10) hours for each of these points.

These points shall be validated/verified with International Fixed Stations in WGS84/ITRF reference frames for an average ambiguity resolution of 50% or better for a reliable network solution.

**4.3.1.3 Primary Controls:**

DGPS Primary Controls shall be established at a maximum distance of 2.5 kms with one base and one rover using leapfrog method, by applying adjustments to create network. Minimum observation time shall be at least two (2) hours for each of these points. At every 5 kms one additional DGPS point with two (2) hours observation (to form an inter-visible pair) shall be established, which may be used for Total station if needed for topographic survey.

**4.3.1.4 Secondary Controls:**

DGPS Secondary Controls shall be established at a maximum distance of 333 meters with one base and two rover at alternate sides of Alignment (to form triangular network) using leap frog method, by applying adjustments to create network. Minimum observation time shall be at least 45 minutes for each of these points.

**4.3.1.5 Vertical Control:**

Vertical Control shall be established using MSL WGS84 from first order SOP Bench Marks with double run leveling. Digital level with an accuracy of 0.3 mm or less and single section 2m/3m staff or invar staff with change plate on bottom shall be used. The maximum distance between the two successive reading points shall not be more than 50m. All horizontal control points are connected with monuments made for Horizontal primary and secondary controls with double run level to control the height as mentioned above.

**4.3.1.6 Monuments for Horizontal and Vertical Controls:**

The monuments for controls shall be as per Client specifications. The ITRF Controls, Primary Controls shall be tied with two permanent points as per Client Specifications.

**4.3.1.7 Topographic survey (scale 1:1000); including on ground features, buildings, Utilities and Crossing Roads:**

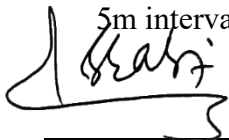
- a. Topographic Survey will be performed within the ROW Limits. At important control section, if the large-scale structures are proposed to be built on the sections, the survey range can be extended reasonably if necessary. Enough Spot Levels (points) shall be taken to create a topographic map in the scale of 1:1000.
- b. The Consultant is required to observe cross-sections across the River Khadir's Bank to Bank at every 300 meter interval. Three cross-sections at the Bridge Site (one center-line and other two adjacent to centerline up and down stream of the bridge. The BM for upon which the Model study survey was done should be incorporated in the traverse/ level circuit.

Centerline Points (stake) and Measurement of elevation of route stake.

- a. The distance between the centerline points shall be 25m in general, in case of the pond the stake is fixed on the bank of the inclination and waterline.
- b. The distance between the stakes is 5m-8m on the section of roads which have retaining walls.
- c. The distance between the stakes is 10m on the interchange slip road whose radius is less than 60m.
- d. The distance between the stakes is 5m for the 10m before and after the chainage of the abutment for a total distance of 20m.
- e. Minimum three longitudinal sections (parallel to Alignment) including the center axis, the left and right edge lines of the bridge shall be measured. For the places where the topography is changed and bridge pier and abutment, more stakes shall be established.
- f. For the culverts, the chainage and elevation of the crossing point shall be measured; the longitudinal section of the water channel 50m upstream and downstream of the crossing point shall also be measured.
- g. The stakes are placed on the edges of the crossed roads. The stakes should be fixed on the crossing points. There is also a need to collect the coordinates elevation angle, width and road level of the crossing points (50m around the crossing point). The coordinates, elevation, and angle of left, middle and right lines of the important crossed roads should be collected (100m around the crossing point).
- h. The position of 10KV high-pressure pole(tower) around the route within 100m, and the power line's lowest elevation on the crossing point.
- i. The stake's elevation shall be measured one by one.
- j. It is necessary to establish more stakes in case there is any pipeline or building crossing the alignment; the height difference between the bottom elevation of such pipeline or building and the ground shall be measured

**4.3.1.8 Cross section Points:**

- a. The cross section should be measured one by one.
- b. The cross section of the embankment should be measured at 25m interval for the straight line sections and curve sections with radius larger than 5000m. At curves having radius less than  $R=5000$  m, the cross sections shall be measured at 20m interval.
- c. The cross section shall be measured to the ROW limit.
- d. For the alignment sections with proposed retaining wall, the cross section shall be measured at 5m interval.



- e. For the bridge pier, the measuring range of the cross section is 10m at both left and right sides of the center; for the bridge abutment, the measuring range is till the ROW limit

**4.3.1.9 Interchanges (1:1000) Map (If required):**

Extraction of features shall be done & points shall be taken beyond the ROW of 100 m and inside the minimum Region defined for Interchanges to create 1:1000 map. The minimum length of existing road to be included in topographic survey (for interchange ramps merging) should not be less than 250 m.

**4.3.1.10 Riverine Survey for Crossing Canals - Short Bridge:**

Measure the center longitudinal section of the canal from 100m upstream to 50m downstream, and measure the cross section of the canal at 10m interval which is perpendicular to the axis of river. The canal edges must be taken recorded along with all break points to clearly define the canal shape.

**4.3.1.11 Riverine Survey for Grossing Rivers - Long Bridge:**

The Consultant shall carry out the Riverine Survey of about 12 Km upstream and 5 Km downstream. Consultant should take latest cross sections at every 300 meters (at maximum) from high bank to high bank of flood protection bunds. The data shall be used to run HEC-RAS for validation and for constructing experiment model tray for Physical Model Study. Location of cross-sections shall be as per requirement of the physical model.

The Riverine Survey will be forwarded by the Design Consultant to Irrigation Research Institute (IRI) for conducting the Model Study. Payment of the Riverine Survey will be released to the Consultant after successful base run. The Consultant shall be the focal person to coordinate with IRI for Model Study.

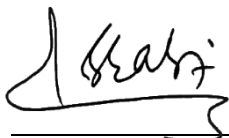
Provisional sum is included as the part of the bid, that shall be payable to Irrigation Research Institute for carrying out Hydraulic Model Study. The Consultant shall review and vet the Model Study Report and submit as per acceptance of the Client.

**4.3.1.12 Survey for Grossing Water Channels / Nullas:**

Measure the center longitudinal section of the water Chennel/Nullas from 100m upstream to 50m downstream, and measure the cross section of the water channel/nullas at 10 m interval, which is perpendicular to their axis. Minimum 5 points shall be taken at each cross section to correctly depict the top and bottom of the sloping bank, width of bank and center of channel. The distance between the cross-section points shall not be more than 5m for wider water channels/Nullas.

**4.3.1.13 Survey corridor:**

The detailed topographic survey in normal circumstances shall be carried out in a corridor of 100 m. At locations of crossing rivers, nullas the detail of survey extent is given in respective sections.



**4.3.1.14 Scale:**

Besides soft copy, mapping of drawings shall be plotted to a scale of 1:1000.

**4.3.1.15 Horizontal Control:**

Vertical Datum: MSL WGS84

**4.3.1.16 Details to be shown:**

**Buildings/Structures**

1. The plinth line of all permanent buildings.
2. Construction type of building (whether brick (B), semi-concrete (SC), concrete (C). double story (D) etc.).
3. Ruins or partially demolished buildings or foundations - by the wall and masonry visible at the time of the survey.
4. Names and type of usage of all buildings, schools etc.
5. Buildings under construction.
6. Invert level of Drainage Structures.

**Roads. Tracks and Footpaths**

1. Kerb line or edge of surfacing to carriageways, and along the edge line markings.
2. Tracks
3. Pedestrian bridges and footpaths
4. Traffic islands (similar to kerb line)
5. Destination of road for junctions' level
6. Bridges (over railway, river, etc. )
7. Levels over railway line in case of at grade or grade separated crossings
8. In case of power transmission lines crossing alignment, level of electric wire with respect to survey control shall be recorded.

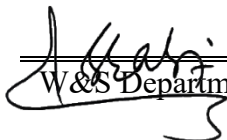
**Industrial**

1. Name and type of industry, Boundary wall and building structure inside
2. Tanks (indicate type of material stored e.g. fuel, gas, water, etc.)
3. Sewage disposal works details
4. Chimneys (substantial )

**Road Furniture (In case of existing road)**

1. km post ( value to be noted )

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W&S Department, GoS, Provincial Highway Division Hyderabad

2. Bus stop facilities
3. Traffic signal posts and controllers
4. Guardrails
5. Road signs

### **Boundary Features**

1. Fences
2. Gates
3. Boundary stones located/used for fieldwork
4. Walls
5. Burial grounds
6. Historical areas

### **Railways**

1. Gauge faces of railway running rails with elevations of rail top
2. Level crossings
3. Platforms
4. Bridges (over road, river, etc.)
5. Station building
6. Telegraph poles (indicate the reference numbers)

### **Survey**

1. Survey Department Trigonometric Stations
2. Permanent Ground Markers (IP's, RM's, TBM's, etc.)
3. Survey Department Benchmarks used (indicate reference number and level)

### **Woods, Trees & Recreation Areas**

1. Playing field
2. Land-use and vegetation, etc.
3. In case of trees in the survey corridor, the surveyor has to assign a code defining the girth of the tree. Trees with varying girth as specified in the CSR for payment shall be in respective layers.

### **Slopes and Earthworks**

1. Cutting and embankments with any protection work done
2. Terraced slopes
3. Borrow pits / Quarries
4. Retaining wall
5. Rock outcrops

6. Mining tips
7. Indicate date of survey if on-going earthworks is present and mark the affected area

### **Services and Utilities**

1. Transformers (boundary fences only)
2. Electricity sub-stations and switch boxes (boundary fences only)
3. Pylon lines (indicate levels at lowest point at sag and at pylon towers)
4. Pylon bases
5. Pylon reference numbers and voltage of transmission
6. Radio, TV station masts or towers
7. Telecom poles
8. Electricity poles
9. Water mains pipes and stop valves (indicate diameter of pipe)
10. Manholes (circular and square)

### **Water & Drainage**

1. Lakes
2. Ponds or mining pools
3. Reservoirs
4. Rivers (name to be indicated)
5. Streams
6. Ditches (width to be indicated)
7. Canals
8. Wells (diameter or width to be indicated)
9. Swamps
10. Lined drains (width, depth and type to be indicate)
11. Water towers
12. Culverts
13. Waterfalls
14. Jetties (if any)
15. The top of banks of all water features over 1.0 meter wide shall be detailed and the bottom of banks as indicated by the water level at the time of the survey. The direction of flow of all river, streams and watercourses shall be indicated.
16. Slopes with height greater than 1.0 meter of too sharp gradient to be shown by contours, including river and stream banks are to be shown on conventional markings and the top and bottom of slopes are to be shown as dotted lines.
17. Slope conventions shall be drawn as near as possible to indicate the actual shape of the slope face, i.e., all berms and terraces shall be detailed.16.

Any other features not listed, which are requested by the Client shall also be shown

#### **4.3.1.17 Bridge details:**

The bridge details shall be shown on a separate drawing for each bridge. The bridge observations in form of coordinates shall include the following:-

- The coordinates and levels of the four corners of the bridge (points shall be on the adjacent road surface), the two edges of the piers, abutment and wing walls.
- The coordinates and levels of the bridge deck to the intermediate piers (if any) of the bridge.
- The clearance details in case of adjacent railway bridges.
- Skew angle of the bridge from its centerline.
- Length, width and type of construction of bridge.
- The type and location of services adjacent to the bridge.
- The coordinates and levels of the centerline and the road on the bridge at approximate intervals of 5 m.
- The cross-sectional clearance envelope at the two sides of an overpass ridge (with respect to the road centerline passing underneath) showing all the relevant levels, offsets and skew angle

#### **Culvert details**

Details of each culvert are to be shown on the survey plans and a separate sheet (annexure-c) tabulation of the following information is to be submitted with the plans:

- Type of culvert and diameter.
- Chainage of culvert at the road centerline.
- Skew angle of the culvert from the centerline.
- Length of culvert from each side of the centerline.
- Invert levels of the inlet and outlet.
- A sketch of the inlet and outlet structures including all visible dimensions to a scale of 1:200.

For major culverts (dia.>2.0m) the outlet structures are to be properly measured enough points shall be recorded so that the culvert can be modeled in CAD.

In case alignment runs along the existing road, sufficient points should be taken across the existing road to fully define the cross-section. Below are minimum points shown for the existing road way cross-section. For the existing carriageway, the width of carriageway, inner and outer shoulders should be clearly identified and coded.

#### **Existing Road/embankment**





#### 4.3.1.18 Details of junctions and existing roads:

The Surveyor shall survey all junctions to enable the designer to design the junction properly. A corridor width of 70m and shall be taken for a distance of not less than 150 meters up and down the proposed intersection of the road or as required by the client.

All paved roads, main roads and footpaths or tracks having the width greater than 2m shall have a minimum of two (2) points defining both edges of the carriageways. Consecutive points along the road feature shall not exceed 20m in rural areas and 10m in urban or built- up areas. More points are generally needed to define curved feature such as slip roads, islands, etc.

Levels of the road centerline shall be recorded for paved roads having widths greater than 6.0m. The main destination of the road from the junction shall be recorded by the Surveyor.

Where necessary to survey along an existing road, the Surveyor shall follow the marked changes along the centerline. In addition to the road edges consecutive points along the edges of the carriageway (i.e. along the edge line marking on both sides) shall be picked up and shall not exceed 10 m. More points are generally to define super-elevation changes at curve sections.

#### 4.3.2 Digital Ground Models ( DGM ):

The product of the filed survey data, after processing shall be DGM. The accuracy of DGM shall depend upon the accuracy of the digital data collected in the field. Before processing the data, it is important to run the data filtration. All data points with incorrect x, y or z values shall be removed. It is also important as well to properly identify the break lines like road, nullah edge with natural faults. Void areas like buildings shall also be marked. The topography shall be fully labeled for every object recorded.

All survey feature lines will herein be referred as 'strings'. The data shall be presented by the Surveyor in a form suitable for input to the software to be used for generation of DGM. Using the recorded data in x,y,z format on data logger, the ground surface over the required area shall be simulated by strings of coordinated information along characteristic lines on the terrain. The models shall consist of three dimensional (3D) contour strings.

The existing road surface over the required area shall be simulated by 3D strings of coordinated information along characteristic lines on the existing carriageway. Any other strings that do not affect the accuracy of the ground surface may be assigned a null level.

The Surveyor shall obtain prior approval from the Client for any strings that are to be digitized but that do not absolve the Surveyor from the subsequent accuracy and definition of the model.

TIN (Triangular irregular network) shall be developed by using software. Using TIN Contour generation shall be done. Since the Client uses Eagle Point for vetting, same shall be used by the consultant.

#### **4.3.3 Grid:**

The coordinates of the DGM shall be referred to the grid system as described in the Section 3.1.2. The coordinates of the DGM shall be in Easting, Northing and elevations.

#### **4.3.4 String Labeling:**

The ground features including break lines shall be labeled with the exact description shown under AUTOCAD LAYER NAME. Any additional labels may be considered and the Surveyor shall submit the list for approval prior to their usage in the DGM.

#### **4.3.5 Property Model:**

This model shall be stimulated by a series of 3D null level strings and text strings and includes the following:-

- a) Strings of land lots (null level strings)
- b) Land use and type (Text Strings)

Attributes to land type and use shall be appended to in the AutoCAD format. Such information shall be used by the Surveyor when preparing Land Utility folders at the end.

#### **4.3.6 Contours:**

After digital data collection of survey points at site, the contour generation shall be done by using computer software. The interval shall be 1 m. The smoothness factor to be defined in the software should be such that it should not distort the ground contour representation.

The contours should be well labeled.

During data collection, break lines on the ground should be very well picked that affects the contour generation.

If in the project, where steep slopes are likely to be encountered, the surveyor is required to use the laser equipped total stations that does not require and prism to record the co-ordinates.

Contours shall be shown by continuous lines with a thicker line for every fifth contour (Prominent Contour). Contour and spot heights shall be differentiated from other detail. The value of each contour shall be indicated along the contours at intervals not exceeding 200 mm and / or the edges of the

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Mapping area.

Where because of undergrowth, on-going earthworks, swampy areas, or other obstructions, the ground surface is obscured, or access is restricted, and provided the Client prior agreement is obtained, contour can be shown by broken lines to indicate that their accuracy cannot be guaranteed.

#### **4.3.7 Longitudinal Profile and Cross-Section:**

The longitudinal profile plan shall be plotted in A11A3 size (as requested by Client) to a scale of 1:1000 Horizontal and 1:100 Vertical with chainage interval of 25 m unless otherwise specified or instructed by the Client. The cross sectional plan of the existing road shall be plotted in A1 size to a scale of 1:200 both horizontal and vertical with 25 m interval. The plan shall show the chainage interval as specified and the existing ground profile and all the existing features.

#### **4.3.8 Original Drawings & Preliminary Copies:**

Preliminary copies shall be submitted in the form of stable based paper. Every sheet of the drawings shall be marked as preliminary copy, until the final approved copy which shall be marked as "Final Tender Drawings". Each drawing shall be stamped and signed by the Designer.

#### **4.3.9 Soft Submission of Data and Drawings:**

The Surveyor shall supply the digital ground model data, All Drawings, Reports suitable for input to the computer specification acceptable to Client. The data shall be supplied as specified below in order to preference:

The CD-R and hard copy shall be supplied with an index scheduling the contents and referencing and shall remain the property of the Client.

#### **4.3.10 Field Books and Record:**

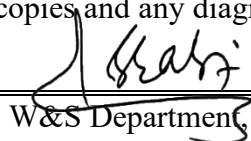
All field books and computer data must be properly kept and shall record truthfully all the survey work carried out. The Surveyor shall do all workings in proper books, adequately in good style and according to best practice. All field books shall be done in ink. Unsatisfactory works and errors shall be struck off and there shall be no superimposed writing or erasure.

Client's Representative may check the field books now and then to ensure that a high standard of work is maintained. He may request the Surveyor to carry out some spot checks if he has reasonable doubt on the accuracy of the survey work. The Surveyor shall comply with such requests unless he can prove to the client's representative for his satisfaction that such checks are unnecessary.

All field books and computer data shall be certified by the qualified surveyor.

The Surveyor shall submit the required number of copies of Final Survey Report on completion of all survey works in a format as approved by the client. All photographs for all the copies shall be original copies and any diagrams or plans presented together with the report shall be in a clean and neat form

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and in scanned soft format.

<b>Task 4:</b>	Traffic & Axle Load Survey
<b>Approximate Duration:</b>	20 Days
<b>Outcome:</b>	Classified Traffic Surveys after approval of Client. Submit Traffic & Axle load survey report

#### 4.4.1 Traffic Count:

Traffic count forms the basis for capacity analysis, pavement design and economic analysis etc. consultant is required to carry out classified traffic counts at required locations along the project and on the connected network to develop an understanding of traffic pattern. The study will also entail the estimation of diversion and generated traffic. The consultant shall submit in inception report, detailed program of traffic count along with locations, duration and repetitions. Same shall be exercised after the approval of the Client.

The classified traffic count shall include following classifications:

- Non motorized traffic    Animal drawn, bicycle
- Motorized traffic        M/cycle, Car/Pickup/Jeep, Minibus/wagon,  
Bus, 2-Axle, 3- Axle, 4-Axle, 5-Axle, 6-Axle  
Tractor trolley

The traffic count shall be done with hourly classification. In peak hour, 15-minute interval count shall be done to ascertain Peak Hour Factor (PHF).

#### 4.4.2 Journey Time:

For with and without Project scenario, the journey time survey of various classes of vehicles in peak hours and off-peak hours shall be done. It shall be used in economic analysis.

#### 4.4.3 Origin & Destination Survey:

If required, the O&D Survey shall be carried out to identify the traffic like to be diverted to the proposed bridge.

#### 4.4.4 Underpass/Cattle Creep Survey:

Using satellite imageries, field survey and site consultation, consultant shall identify exact number & locations of the underpass/cattle creep survey to be provided for convenience of local residents.

#### 4.4.5 Traffic Diversion Plans:

Traffic Diversion Plans shall be provided for the following situations:

- a. At toll plazas
- b. At Intersections and interchanges
- c. In urban areas including methodology for separating the local and through traffic
- d. On at-grade railway crossings.
- e. At places where underground construction like construction of box culverts and underpasses, proper traffic diversion plans shall be provided.

At places where overhead bridge construction is likely to take place, proper traffic diversion plans shall be provided.

**Consultant shall fully define the methodology for construction sequence, diverting traffic and maintaining the diversion roads.**

<b>Task 5:</b>	Soil & Material Investigation Report
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<b>Approximate Duration:</b>	45 Days
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<b>Outcome:</b>	Soil and Material Investigation Report
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#### **4.5.1 Soil & Material Investigation:**

Soil & Material investigations shall be done to ascertain the index and engineering properties of soil & rock encountered. The consultant is required to seek, interpret and evaluate subsurface and surface data in order to predict the behavior of the soils and materials along, and adjacent to, the alignment. The resulting information should be presented in a logical and intelligible manner so that it can be used correctly and efficiently by the non-specialist.

The consultant is required to carry out following steps:

- Determine needs of the design
- Carry out complete ground investigations
- Carry out complete laboratory testing
- Evaluate results for final design

As per fixed horizontal and vertical alignment, identify the areas of deep cuts and high fills. Study precise geometry of the roadway structures and develop design requirements.

Field investigations shall be carried out in three main areas.

- Investigation along the length of the proposed alignment and to determine the pavement support potential offered by the subgrade soils
- Investigation to determine the source and quantity of naturally-occurring construction materials
- Examine specific sites such as deep cuts, retaining walls and culverts etc.

Following table shows the guidelines for the quantity of roadway pits or borings and testing required for the Final Design Report. The values given are average investigation requirements for normal highway work and that actual scope will depend upon the complexity of the problem.

Roadway type	Height (m)	Terrain type	Spacing (m)	Depth (m)
Embankment	<2	Uniform	1000	1.0
		Rolling	500	
		Hilly	250	
	2-10	Uniform	500	1/3 of embankment of refusal
		Rolling	400	
		Hilly	200	
>10	Uniform	600	2/3 of embankment of refusal	
	Rolling	300		
	Hilly	150		
Cut	<2	Uniform	1000	1.0 below subgrade
		Rolling	500	
		Hilly	250	
	2-10	Uniform	800	1.0 below subgrade
		Rolling	400	
		Hilly	200	
>10	Uniform	600	1.0 below subgrade	
	Rolling	300		
	Hilly	150		

Guidelines for testing requirements are given below:

Test	Test Requirement		Frequency	
	Embankment	Subgrade	Alignment	Borrow Area
Gradation	•	•	1 per km	1 per boring/pit
Moisture Content	•	•	1 per km	1 per boring/pit
Classification	•	•	1 per km	1 per boring/pit
Moisture Density	•	•	2 per 5 km	1 per boring area
CBR	-	•	1 per 1 km	1 per boring area

For testing of materials, following codes and standards shall be followed:

- a) ASTM - American Society for Testing & Materials.
- b) AASHTO - American Association of State Highway and Transportation Officials.



<b>Task 6:</b>	Environmental Impact Assessment
<b>Approximate Duration:</b>	120 Days
<b>Outcome:</b>	EIA Report submission and obtaining NOC from Pepa

#### 4.6.1 EIA:

As per Pakistan EIA Rules, Consultant is required to carry out the EIA Study for the Project. It involves collection of required data from site, formulation of Report, getting it reviewed from Client. Submission of EIA Report to SEPA, addressing their requirements, to their entire satisfaction (including submission fee which shall be paid by the Client). Conducting the Field hearing and obtaining NOC for Client.

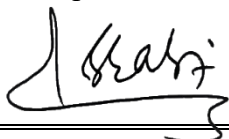
<b>Task 7:</b>	Geotechnical Investigation for structures
<b>Approximate Duration:</b>	45 Days
<b>Outcome:</b>	Geotechnical Investigation Report

#### 4.7.1 Geotechnical Investigation for Structures:

Consultant shall appoint, after the approval of the Employer, a "Nominated Specialist Contractor" to perform geotechnical investigations including field and laboratory testing, for which a provisional sum of Rs. 46.0 million/- maximum has been kept, not less than (14 x 60 m) for main bridge) (6 x 30 m) for canal bridge. After the formulation of exact scope of work for sub-surface investigations based on reconnaissance survey by the consultants and subsequent approval of Client, at least three **sealed** quotations from reputed Geotech firms shall be called by the consultants and submitted to Client for nomination of selected contractor, where after work shall commence on site based upon a formal agreement between the consultant and contractor (including quantities, rates and work schedule). The Employer would pay the fee for this work agreed between both parties directly to the nominated specialist contractor after certification of work by the concerned Executive Engineer, Provincial Highway Hyderabad, GoS and invoiced by the consultant. Consultant will supervise the sub soil investigation work to be carried out by Geotechnical Firm.

Geotechnical Firm will submit schedule of investigation to Executive Engineer, Provincial Highway Hyderabad, GoS at least 10 days prior to mobilization, so that he can inspect anytime through his representatives.

Sub-surface investigations consisting of boreholes / drill holes / test pits of required depth, supplemented by field and laboratory testing to accurately assess the engineering properties of the underlying soil strata for detailed design of foundations, substructures and roads shall be undertaken. A separate report will be prepared to this effect and will be submitted to Client for approval. Original lab reports shall be attached in the soil report along with colored photographs.



Bore logs shall be included in the Soil Investigation Report along with the laboratory results. Testing of samples collected from site shall be carried out in a reputed laboratory, under strict quality control and adherence to relevant ASTM procedures / standards. Depth of boring shall be decided by the geological formation at site and the type of foundations proposed for the structures. Standard penetration tests shall be started from the ground surface and carried out in accordance with ASTM D1686 Penetration Test and Split Barrel sampling of soils. Where clayey soils are encountered, undisturbed samples shall be obtained in accordance with ASTM thin-walled sampling of soils.

The site investigation to be undertaken shall consist of the following: -

- Deep Machine boring to a maximum depth of eighty (60m) below ground level and associated field tests for River Bridge Piles and 30 m for other structures.
- Trial Pits to a maximum depth of 3 meters.
- Hand auger holes to a maximum depth of 7.5 meters.
- Determine the stability of the cut slopes using appropriate stability analysis or through study, field surveys and investigation of materials.
- Separate BOQ shall be prepared by the Consultant with all required tests for deep boring. It is required to carry out grain size analysis at required scour depth.
- Submission of proper site investigation report comprising all relevant notes and pertinent information required by this Specification together with laboratory test results. The above scope of work may be varied or deleted depending on the findings as the investigation proceeds. All Sections in this Specification and the Bill of Quantities, which relate to work or materials not required shall be deemed not to apply.

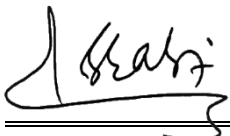
<b>Task 8:</b>	Structural/Bridge Design Report
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<b>Approximate Duration:</b>	30 Days
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<b>Outcome:</b>	Structural / Bridge Design Report
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#### 4.8.1 Bridge Design Report:

- Project-specific design criteria regarding serviceability and safety, applicability of the design standards regarding design loads and materials.
- Definitions and magnitude of loads such as: Wind, seismic, and vehicular loads.
- Modeling and analysis assumption, such as geometry and boundary conditions, load case definitions, load combinations and force envelopes.
- Gravity, wind and seismic load paths
- Design of foundation and soil-structure interaction modeling based on geotechnical data
- Deflections, movements and joint articulations
- Dynamic characteristics, and vibrations



- Design of all components of bridge, including main members of superstructure, cables, substructure, foundation their forces and their sizes, and their limit states for ultimate, fatigue and service.

#### 4.8.2 River Training Works:

Guide Banks, spurs and protection works as specified in the Model study report will be designed for high flood discharge and flow pattern determined by design calculations and hydraulic model study. Detail Drawings of the River training works will form part of Hydraulic Report and Tender Package.

<b>Task 9:</b>	Pavement Design Report
<b>Approximate Duration:</b>	15 Days
<b>Outcome:</b>	Pavement Design Report

#### 4.9.1 Pavement Design Report:

After the traffic count and projections for designed life of 10 years are done, the soil investigations data is available; the pavement design shall be done. The consultant shall get the basic design from AASHTO Pavement design guide-93, but final pavement design shall be done using empirical-mechanistic method. Asphalt Institute & Shell Model shall be used. Axle Load data and tyre pressure data collected under Para 7.1.3 shall be used. Kenlayer analysis software shall be used. Non-linear elastic approach shall be employed.

All calculations shall be attached in the report.

Flexible, Rigid and Composite Pavement shall be evaluated and cost comparison shall also be carried out.

<b>Task 10:</b>	Hydrologic Study
<b>Approximate Duration:</b>	25 Days
<b>Outcome:</b>	Hydrologic Study

#### 4.10.1 Hydrology & Hydraulic Study:

The hydrologic analysis performed on Project shall be compiled in a hydrologic report. The Report shall consist of two sections; a data section, where the hydrological background information shall be recorded. Other part shall be an analysis section, where the design computations shall be recorded.

The following items shall be used as a checklist of the data that shall be included in the hydrological report. The comprehensiveness of the report shall depend upon the nature of the valley, or flood plain to be traversed, the cost of proposed drainage structures, and class of highway.

#### **4.10.2 Hydrological Data:**

Data shall comprise of following items:

##### **i. Topographic Maps**

Maps are required to show the proposed highway alignment in relation to the drainage characteristics of the area being traversed. Proper catchment areas shall be marked for rivers & nullas. Same shall be made part of the reports.

##### **ii. Satellite Imagery**

The satellite imagery shall be used for upstream and downstream to identify the land use and drainage characteristics. Photographs shall be taken for all crossings whose design flow exceeds 20 m<sup>3</sup>/s. Same shall be made part of the report. These photographs shall be of sufficient quality to enable the engineer to estimate channel roughness characteristics, nature & extent of vegetation cover, and land use. These pictures may be placed in the text or referenced in the text and compiled at the end of the Report.

##### **iii. Land Use**

Using the topographic maps, satellite imagery and site visits, the engineer shall comment on the nature of the land use in the affected water sheds. Similarly engineer shall comment on the nature of vegetation and soil characteristics of the basins. Individual types of land use, vegetation, and soil classifications shall be indicated as percentages of basin area. The extent of anticipated changes within any of these areas shall also be indicated.

##### **iv. Water Use**

Engineer shall comment on the use of the water within the affected drainage basins. If reservoirs are within the watersheds, the operational procedures of these shall be described. Condition of bunds of reservoir if made by locals shall also be commented upon.

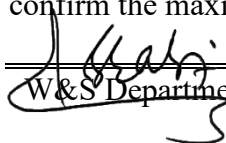
##### **v. Rainfall Data**

Rainfall data for the Project area, obtained from Meteorological department shall be made part of the report. The data shall consist of a brief description, the length of record, the accuracy, and the source (if other than Met department). Data collection shall be responsibility of the Consultant including paying any required fee from any source.

##### **vi. River Discharge Data**

In case a major river is encountered, its maximum discharge shall be obtained from the relevant department. In case of current Project, the Model study report is already available. Consultant to confirm the maximum discharge.

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## **vii. High Water Marks**

Often high-water marks can be used to estimate peak flows within a basin. Whenever possible the Engineer shall prepare a brief flood history. This statement shall include the dates of occurrence of the flooding and the elevations of high-water marks. If possible photographs of such marks shall be included in the report.

### **4.10.3 Hydrologic Analysis:**

Hydrologic analysis shall comprise of following steps:

#### **i. Drainage Area**

This exercise is done usually on the topographic maps. A field inspection of drainage basins is highly desired. If available, DEM model with satellite imagery can be used to simulate the drainage pattern of the area. In the field inspection, in hydrologist shall record manmade features, such as agriculture terraces and dikes, which with intercept all of the runoff from the drainage area. These may include roadway/railway embankments. Once the boundaries of the contributing areas have been established, they shall be delineated on a base map and the areas determined. This is commonly using a scanned map in CAD software.

#### **ii. Watershed Parameters**

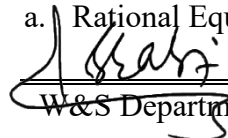
Drainage basin characteristics shall be determined in the field or from available maps. The list of parameters below is based on the information needed by the various models used in the hydrological analysis. Some parameters will be inserted directly into a particular formula and others will be used in comparing one watershed to another for use in transferring data.

- i. Basin Length
- ii. Basin Slope
- iii. Percent Impervious
- iv. Infiltration
- v. Detention Depression Storage
- vi. Drainage Basin Roughness coefficient
- vii. Channel or conduit slope
- viii. Channel or Conduit Cross-section
- ix. Channel or Conduit Roughness

#### **iii. Flood Models**

Listed below are several methods for use in estimating peak runoff from drainage areas.

- a. Rational Equation: To be used for areas less than 50 ha



- b. Gumbel Distribution: Areas greater than 100 ha with gauging station data at the site.
- c. Indirect Estimates: Areas greater than 100 ha with gauging station data from neighboring watersheds.
- d. Regression Equation: Areas greater than 100 ha with rainfall data.

Whether on of above methods or any other method is chosen to estimate the watershed runoff, the Engineer shall include in the hydrology report a copy of sample computation and any reference used.

The recurrence intervals for use with hydrologic computation shall be as follows:

Expressway        100 years (1 percent)  
Arterials    50 years (2 percent)  
Collectors 50 years (2 percent)

**iv. Rainfall Intensity**

The rainfall intensity value used in the Rational Equation is based on the amount of rainfall that occurs, the time it takes for that rainfall to occur, and the recurrence interval associated with each design class, Statistical approach shall be used to develop IDF curves. Detailed calculations and IDF curves shall be made part of the Report.

<b>Task 12:</b>	Stakeout of Design Alignment
<b>Approximate Duration:</b>	20 Days
<b>Outcome:</b>	Approval from Central Design Cell

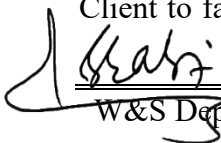
**4.12.1 Stake of Alignment on Ground:**

After the Design drawings are approved, the Consultant shall be asked to stake the alignment on ground. The Centerline markers shall be fixed on ground at 25 m interval. A 1.5m long "Bamboo stick" with orange colour cloth 1m x 0.5 m shall be fixed at each point. The alignment including river training works shall be shown to the Client.

<b>Task 13:</b>	Land Acquisition & Utility Folders
<b>Approximate Duration:</b>	20 Days
<b>Outcome:</b>	Land Acquisition & Utility Folders

**4.13.1 Land Acquisition and Utility Infrastructure Report:**

The consultant shall identify land and property falling in the right of way (ROW) to be acquired, if available. The consultants shall submit ROW plans showing the alignment with 5 copies thereof to Client to facilitate timely action for acquisition of land to define the right of way. ROW permanent



markers shall be set up by the consultant, upon request. The Consultant shall also prepare estimate for acquiring any additional and removal of structures and utilities, particularly in the built up areas. Folders shall be submitted in soft format in CAD with reference to grid coordinates.

**Task 15:** Formulation of PC-I

**Approximate Duration:** 10 Days

**Outcome:** Submission of PC-I

#### 4.15.1 Formulation of PC-I:

The consultant shall update and improve the PC-I for the project road sections including economic analysis on prescribed Performa of PC-I by Planning Commission.

**Task 16:** Tender Documents

**Approximate Duration:** 20 Days

**Outcome:** Submission of Tender Documents

#### 4.16.1 Tender Documents:

### TENDER DOCUMENTS

Tender Documents shall comprise of the following: -

**a. Volume-I**

- instructions to Bidders.
- Conditions of Contract (Part-I) (General Conditions)
- Conditions of Contract (Part-II), (Conditions of Particular Application)
- Conditions of Contract (Part-III), (Supplementary Conditions)
- Forms and Appendices

**b. Volume-II**

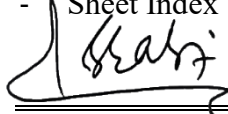
- General Specifications.

**c. Volume-III**

- Particular Specifications, Special Provisions and Bills of Quantities.

**d. Volume-IV**

- Drawings as per the following detail:
- Title Sheet
- Sheet Index



- Key & Location Plan with Co-ordinates and alignment with stationing. Pits of soil investigations shall also be marked.
- Sheet of Legends & Symbols
- Traverse, Bench Mark and Design alignment data including curve data
- Typical Cross-Sections with locations of applications
- Super-elevation details and Linear Plan
- Road Furniture Details (Guard rails, Pavement Markings & Traffic signs etc.)
- For Road furniture, location tables
- Retaining walls with location tables
- Soil investigation linear plan
- Intersection Details
- Drainage plan for surface runoff and urban areas
- Mass Haul Diagram
- Plan and Profile Drawings
- General Notes for Structural Drawings
- Drawings for Small drainage structures
- Drawings for Large structures
- Drawings earth retaining structures
- Landscaping details
- Miscellaneous Details/ Ancillary Works including training works.
- Detail drawing folders of Utilities/infrastructure for Land Acquisition and removal of all utilities/ infrastructure etc., having all the requisite information.
- Drawings related to Environmental Mitigation Measures
- Detailed design calculations for all the relevant structures (Excel sheets, models, hard copies)

SPPRA has standardized Volume-I (Part-I) and Volume-II. Consultants shall study and adopt these documents after careful scrutiny and modification wherever required.

**e. Technical Specifications**

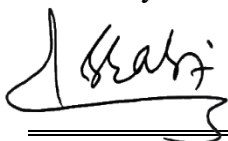
The consultants shall study the Client Specifications and prepare particular specification for the project for specified items not covered in the General Specifications.

**f. Bill of Quantities**

Consultant shall prepare comprehensive Bill of Quantities to be calculated to accuracy of  $\pm 10\%$  encompassing all the items of work, properly cross referenced to the Technical Specifications. Standard format of Bill of Quantities shall be adopted.

**g. Engineer's Estimate**

Consultant shall prepare the Engineer's Estimate of the project based on the detailed design, drawings and final Bill of Quantities, using GoS Schedule of Rates (2024). For items not specified in GoS CSR, rate analysis shall be provided based upon market price.



#### **4.17 Submission of Documents:**

All the Reports associated with each Task shall be submitted as stated in respective sections. In the technical proposal, consultant shall develop a Work programme Task wise with submission dates. Failing to provide the same, the proposal shall not be evaluated.13)canals.

All documents/ drawings shall be subject to review and checking by Client's Experts. Consultant will incorporate any comments/ modifications made by the Experts (if agreed, The Responsibility for correctness of design lies with the Consultant).

Consultants will provide two additional sets of the tender documents (other than the amount listed in Annexure 'I against Deliverables) and reports to the Client at a later stage at no extra cost to the client. Additional number of sets (if required) shall be provided at a cost of Rs. 5,000/- per set.

##### **4.17.1 Provision of Data on Compact Discs:**

The Consultants shall submit complete set of documents and drawings listed above on three (03) digital CD-ROMs. Files (Word, Excel, AutoCAD, Graphical Images, and Photographs etc.) shall be properly indexed/ catalogued for record purposes and use/ reproduction at a later stage by Client.



**Annexure-II**

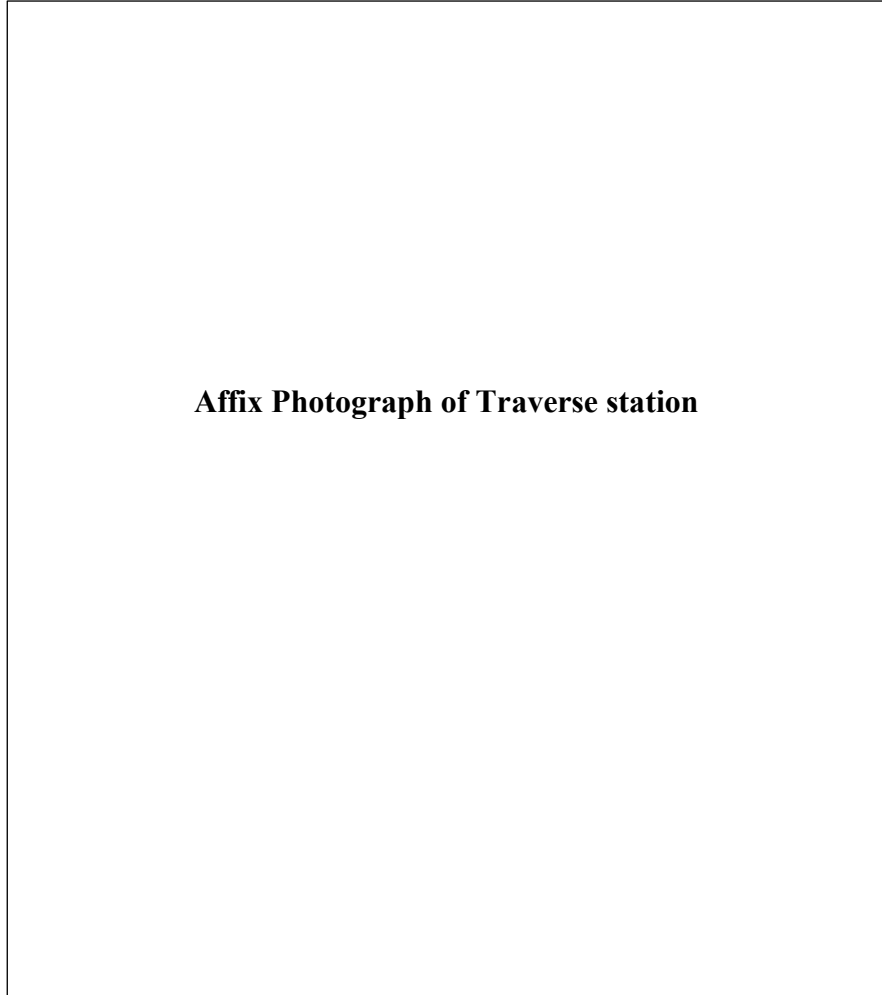
**INFORMATION FOR FIXED TRAVERSE STATIONS**

Name of Traverse Stations: \_\_\_\_\_

Northing: \_\_\_\_\_

Easting: \_\_\_\_\_

Elevation: \_\_\_\_\_



**Sketch of the fixed traverse stations with reference to permanent features**

**Provisional Sum**

For geotechnical investigation: Rs. 7,000,000 (seven million rupees only)

S. No.	Position	Nos.	Months	Man months
<b>Key Experts</b>				
1.	Team Leader	1	6	6
2.	Hydraulic / Drainage Engineer	1	3	3
3.	Senior Structural Engineer	1	6	6
4.	Traffic / Pavement Engineer	1	3	3
5.	Highway Design Engineer	1	3	3
6.	Structural Engineer	1	5	5
7.	Quantity Surveyor	1	2	2
8.	Chief Surveyor	1	4	4
<b>Non-Key Experts</b>				
9.	CAD Operators	2	4	8
10.	Computer Operators	2	2	4
11.	Surveyors	1	3	3
12.	Survey Helpers	3	3	9
13.	Office Boys	1	6	6



## II. General Conditions of Contract

### 4.1 GENERAL PROVISIONS

#### 1.1 Definitions

Unless the context otherwise requires, the following terms whenever used in this Contract have the following meanings:

- (a) “Applicable Law” means the Sindh Public Procurement Act, thereunder Rules 2010.
- (b) “Procuring Agency PA” means the implementing department which signs the contract
- (c) “Consultant” means a professional who can study, design, organize, evaluate and manage projects or assess, evaluate and provide specialist advice or give technical assistance for making or drafting policies, institutional reforms and includes private entities, consulting firms, legal advisors, engineering firms, construction managers, management firms, procurement agents, inspection agents, auditors, international and multinational organizations, investment and merchant banks, universities, research institutions, government agencies, nongovernmental organizations, and individuals.
- (d) “Contract” means the Contract signed by the Parties and all the attached documents listed in its Clause 1, that is General Conditions (GC), the Special Conditions (SC), and the Appendices.
- (e) “Contract Price” means the price to be paid for the performance of the Services, in accordance with Clause 6;
- (f) “Effective Date” means the date on which this Contract comes into force and effect pursuant to Clause GC 2.1.
- (g) “Foreign Currency” means any currency other than the currency of the PA’s country.
- (h) “GC” means these General Conditions of Contract.
- (i) “Government” means the Government of Sindh.
- (j) “Local Currency” means Pak Rupees.
- (k) “Member” means any of the entities that make up the joint venture/consortium/association, and “Members” means all these entities.
- (l) “Party” means the PA or the Consultant, as the case may be, and “Parties” means both of them.

- (m) “Personnel” means persons hired by the Consultant or by any Sub-Consultants and assigned to the performance of the Services or any part thereof.
- (n) “SC” means the Special Conditions of Contract by which the GC may be amended or supplemented.
- (o) “Services” means the consulting services to be performed by the Consultant pursuant to this Contract, as described in the Terms of References.
- (p) “Sub-Consultants” means any person or entity to whom/which the Consultant subcontracts any part of the Services.
- (q) “In writing” means communicated in written form with proof of receipt.

**1.2 Law Governing Contract** This Contract, its meaning and interpretation, and the relation between the Parties shall be governed by the applicable law.

**1.3 Language** This Contract is executed in the language specified in the SC, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Contract.

**1.4 Notices**

1.4.1 Any notice, request or consent required or permitted to be given or made pursuant to this Contract shall be in writing. Any such notice, request or consent shall be deemed to have been given or made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent to such Party at the address specified in the SC.

1.4.2 A Party may change its address for notice hereunder by giving the other Party notice in writing of such change to the address specified in the SC.

**1.5 Location** The Services shall be performed at such locations as are specified in special condition of contract and, where the location of a particular task is not so specified, at such locations, whether in the Government’s country or elsewhere, as the PA may approve.

**1.6 Authority of Member in Charge** In case the Consultant consists of a joint venture/ consortium/ association of more than one individual firms, the Members hereby authorize the individual firms or specified in the SC to act on their behalf in exercising all the Consultant’s rights and obligations towards the PA under this Contract, including without limitation the receiving of instructions and payments from the PA.

**1.7 Authorized Representatives**

Any action required or permitted to be taken, and any document required or permitted to be executed under this Contract by the PA or the Consultant may be taken or executed by the officials specified in the SC.

**1.8 Taxes and Duties**

The Consultant, Sub-Consultants, and their Personnel shall pay such direct or indirect taxes, duties, fees, and other impositions levied under the Applicable Law as specified in the SC, the amount of which is deemed to have been included in the Contract Price.

**1.9 Fraud and Corruption**

A. If the PA determines that the Consultant and/or its Personnel, sub-contractors, sub-consultants, services providers and suppliers has engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices, in competing for or in executing the Contract, then the PA may, after giving 14 days notice to the Consultant, terminate the Consultant's employment under the Contract, and may resort to other remedies including blacklisting/disqualification as provided in SPPR 2010.

Any personnel of the Consultant who engages in corrupt, fraudulent, collusive, coercive, or obstructive practice during the execution of the Contract, shall be removed in accordance with Sub-Clause 4.2.

**Integrity Pact**

B. If the Consultant or any of his Sub-consultants, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Consultant as Appendix-G to this Form of Contract, then the Client shall be entitled to:

- (a) recover from the Consultant an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by the Consultant or any of his Sub-consultant, agents or servants;
- (b) terminate the Contract; and
- (c) recover from the Consultant any loss or damage to the Client as a result of such termination or of any other corrupt business practices of the Consultant or any of his Sub-consultant, agents or servants.

On termination of the Contract under Sub-Para (b) of this Sub-Clause, the Consultant shall proceed in accordance with Sub-Clause 1.9 A. Payment upon such termination shall be made under Sub-Clause 1.9 A after having deducted the amounts due to the Client under 19 B Sub-Para (a) and (c).

## 4.2 COMMENCEMENT, COMPLETION, MODIFICATION AND TERMINATION OF CONTRACT

- 2.1 Effectiveness of Contract** This Contract shall come into effect on the date the Contract is signed by both Parties or such other later date as may be stated in the SC. The date the Contract comes into effect is defined as the Effective Date.
- 2.2 Commencement of Services** The Consultant shall begin carrying out the Services not later than the number of days after the Effective Date specified in the SC.
- 2.3 Expiration of Contract** Unless terminated earlier pursuant to Clause GC 2.6 hereof, this Contract shall expire at the end of such time period after the Effective Date as specified in the SC.
- 2.4 Modifications or Variations** Any modification or variation of the terms and conditions of this Contract, including any modification or variation of the scope of the Services, may only be made by written agreement between the Parties. However, each Party shall give due consideration to any proposals for modification or variation made by the other Party.
- 2.5 Force Majeure** The failure on the part of the parties to perform their obligation under the contract will not be considered a default if such failure is the result of natural calamities, disasters and circumstances beyond the control of the parties.
- 2.5.2 No Breach of Contract** The failure of a Party to fulfill any of its obligations under the contract shall not be considered to be a breach of, or default under, this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event (a) has taken all reasonable precautions, due care and reasonable alternative measures in order to carry out the terms and conditions of this Contract, and (b) has informed the other Party as soon as possible about the occurrence of such an event.
- 2.5.3 Extension of Time** Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.
- 2.5.4 Payments** During the period of their inability to perform the Services as a result of an event of Force Majeure, the Consultant shall be entitled to continue to be paid under the terms of this Contract, as well as to be reimbursed for additional costs reasonably and necessarily incurred by them during such period for the purposes of the Services and in reactivating the Service after the end of such period.

## 2.6 Termination

### 2.6.1 By the PA

The PA may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (f) of this Clause GC 2.6.1. In such an occurrence the PA shall give a not less than thirty (30) days' written notice of termination to the Consultant, and sixty (60) days' in the case of the event referred to in (e).

- (a) If the Consultant does not remedy the failure in the performance of their obligations under the Contract, within thirty (30) days after being notified or within any further period as the PA may have subsequently approved in writing.
- (b) If the Consultant becomes insolvent or bankrupt.
- (c) If the Consultant, in the judgment of the PA has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
- (d) If, as the result of Force Majeure, the Consultant(s) are unable to perform a material portion of the Services for a period of not less than sixty (60) days.
- (e) If the PA, in its sole discretion and for any reason whatsoever, decides to terminate this Contract.
- (f) If the Consultant fails to comply with any final decision reached as a result of arbitration proceedings pursuant to Clause GC 8 hereof.

### 2.6.2 By the Consultant

The Consultants may terminate this Contract, by not less than thirty (30) days' written notice to the PA, such notice to be given after the occurrence of any of the events specified in paragraphs (a) through (c) of this Clause GC 2.6.2:

- (a) If the PA fails to pay any money due to the Consultant pursuant to this Contract without consultants fault.
- (b) Pursuant to Clause GC 7 hereof within forty-five (45) days after receiving written notice from the Consultant that such payment is overdue.
- (c) If, as the result of Force Majeure, the Consultant is unable to perform a material portion of the Services for a period of not less than sixty (60) days.
- (d) If the PA fails to comply with any final decision reached as a result of arbitration pursuant to Clause GC 8 hereof.

2.6.3 Payment  
upon  
Termination

Upon termination of this Contract pursuant to Clauses GC 2.6.1 or GC 2.6.2, the PA shall make the following payments to the Consultant:

- (a) payment pursuant to Clause GC 6 for Services satisfactorily performed prior to the effective date of termination;
- (b) except in the case of termination pursuant to paragraphs (a) through (c), and (f) of Clause GC 2.6.1, reimbursement of any reasonable cost incident to the prompt and orderly termination of the Contract, including the cost of the return travel of the Personnel and their eligible dependents.

### 4.3 OBLIGATIONS OF THE CONSULTANT

#### 3.1 General

##### 3.1.1 Standard of Performance

The Consultant shall perform the Services and carry out their obligations hereunder with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Consultant shall always act, in respect of any matter relating to this Contract or to the Services, as faithful advisers to the PA, and shall at all times support and safeguard the PA's legitimate interests in any dealings with Sub-Consultants or third Parties.

#### 3.2 Conflict of Interests

The Consultant shall hold the PA's interests paramount, without any consideration for future work, and strictly avoid conflict with other assignments or their own corporate interests.

##### 3.2.1 Consultants not to Benefit from Commissions, Discounts, etc.

The payment of the Consultant pursuant to Clause GC 6 shall constitute the Consultant's only payment in connection with this Contract or the Services, and the Consultant shall not accept for their own benefit any trade commission, discount, or similar payment in connection with activities pursuant to this Contract or to the Services or in the discharge of their obligations under the Contract, and the Consultant shall use their best efforts to ensure that the Personnel, any Sub-Consultants, and agents of either of them similarly shall not receive any such additional payment.

##### 3.2.2 Consultant and Affiliates not to be Otherwise Interested in Project

The Consultant agrees that, during the term of this Contract and after its termination, the Consultant and any entity affiliated with the Consultant, as well as any Sub-Consultants and any entity affiliated with such Sub-Consultants, shall be disqualified from providing goods, works or services (other than consulting services) resulting from or directly related to the Consultant's Services for the preparation or implementation of the project.

- 3.2.3 Prohibition of Conflicting Activities The Consultant shall not engage, and shall cause their Personnel as well as their Sub-Consultants and their Personnel not to engage, either directly or indirectly, in any business or professional activities which would conflict with the activities assigned to them under this Contract.
- 3.3 Confidentiality** Except with the prior written consent of the PA, the Consultant and the Personnel shall not at any time communicate to any person or entity any confidential information acquired in the course of the Services, nor shall the Consultant and the Personnel make public the recommendations formulated in the course of, or as a result of, the Services.
- 3.4 Insurance to be Taken Out by the Consultant** The Consultant (a) shall take out and maintain, and shall cause any Sub-Consultants to take out and maintain, at their (or the Sub-Consultants', as the case may be) own cost but on terms and conditions approved by the PA, insurance against the risks, and for the coverage, as shall be specified in the SC; and (b) at the PA's request, shall provide evidence to the PA showing that such insurance has been taken out and maintained and that the current premiums have been paid.
- 3.5 Consultant's Actions Requiring PA's Prior Approval** The Consultant shall obtain the PA's prior approval in writing before taking any of the following actions:
- (a) entering into a subcontract for the performance of any part of the Services,
  - (b) appointing such members of the Personnel not listed by name in Appendix C, and
  - (c) any other action that may be specified in the SC.
- 3.6 Reporting Obligations**
- (a) The Consultant shall submit to the PA the reports and documents specified in (PA may insert appendix) hereto, in the form, in the numbers and within the time periods set forth in the said Appendix.
  - (b) Final reports shall be delivered in CD ROM in addition to the hard copies specified in said Appendix.
- 3.7 Documents Prepared by the Consultant to be the Property of the PA**
- (a) All plans, drawings, specifications, designs, reports, other documents and software submitted by the Consultant under this Contract shall become and remain the property of the PA, and the Consultant shall, not later than upon termination or expiration of this Contract, deliver all such documents to the PA, together with a detailed inventory thereof.
  - (b) The Consultant may retain a copy of such documents and software. Restrictions about the future use of these documents, if any, shall be

specified in the SC.

**3.8 Accounting, Inspection and Auditing**

3.8.1 The Consultant shall keep, and shall cause its Sub-consultants to keep, accurate and systematic accounts and records in respect of the Contract, in accordance with internationally accepted accounting principles and in such form and detail as will clearly identify relevant time changes and costs.

3.8.2 The Consultant shall permit, and shall cause its Sub-consultants to permit, the PA and/or persons appointed by the PA to inspect its accounts and records relating to the performance of the Contract and the submission of the Proposal to provide the Services, and to have such accounts and records audited by auditors appointed by the PA if requested by the PA. The Consultant's attention is drawn to Clause 1.9.1 which provides, inter alia, that acts intended to materially impede the exercise of the PA's inspection and audit rights provided for under Clause 3.8 constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the PA's prevailing sanctions procedures.).

**4.4 CONSULTANT'S PERSONNEL**

**4.1 Description of Personnel**

The Consultant shall employ and provide such qualified and experienced Personnel and Sub-Consultants as are required to carry out the Services. The titles, agreed job descriptions, minimum qualifications, and estimated periods of engagement in the carrying out of the Services of the Consultant's Key Personnel are described in Appendix C. The Key Personnel and Sub-Consultants listed by title as well as by name in Appendix C are hereby approved by the PA.

**4.2 Removal and/or Replacement of Personnel**

(a) Except as the PA may otherwise agree, no changes shall be made in the Key Personnel. If, for any reason beyond the reasonable control of the Consultant, such as retirement, death, medical incapacity, among others, it becomes necessary to replace any of the Key Personnel, the Consultant shall provide as a replacement a person of equivalent or better qualifications.

(b) If the PA finds that any of the Personnel have (i) committed serious misconduct or have been charged with having committed a criminal action, or (ii) have reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Consultant shall, at the PA's written request specifying the grounds thereof, provide as a replacement a person with qualifications and

experience acceptable to the PA.

- (c) The Consultant shall have no claim for additional costs arising out of or incidental to any removal and/or replacement of Personnel.

#### 4.5 OBLIGATIONS OF THE PA

- 5.1 Assistance and Exemptions** The PA shall use its best efforts to ensure that the Government shall provide the Consultant such assistance and exemptions as specified in the SC.
- 5.2 Change in the Applicable Law Related to Taxes and Duties** If, after the date of this Contract, there is any change in the Applicable Law with respect to taxes and duties which increases or decreases the cost incurred by the Consultant in performing the Services, then the remuneration and reimbursable expenses otherwise payable to the Consultant under this Contract shall be increased or decreased accordingly by agreement between the Parties, and corresponding adjustments shall be made to the amounts referred to in Clauses GC 6.2 (a) or (b), as the case may be.
- 5.3 Services and Facilities** The PA shall make available free of charge to the Consultant the Services and Facilities listed under Appendix F.

#### 4.6 PAYMENTS TO THE CONSULTANT

- 6.1 Security** The consultant has to submit bid security and the performance security at the rate mention in SC.
- 6.2 Lump-Sum Payment** The total payment due to the Consultant shall not exceed the Contract Price which is an all inclusive fixed lump-sum covering all costs required to carry out the Services described in Appendix A. Except as provided in Clause 5.2, the Contract Price may only be increased above the amounts stated in Clause 6.2 if the Parties have agreed to additional payments in accordance with Clause 2.4.
- 6.3 Contract Price** The price payable in Pak Rupees/foreign currency/ is set forth in the SC.
- 6.4 Payment for Additional Services** For the purpose of determining the remuneration due for additional services as may be agreed under Clause 2.4, a breakdown of the lump-sum price is provided in Appendices D and E.
- 6.5 Terms and Conditions of Payment** Payments will be made to the account of the Consultant and according to the payment schedule stated in the SC. Unless otherwise stated in the SC, the first payment shall be made against the provision by the Consultant of an advance payment guarantee for the same amount, and

shall be valid for the period stated in the SC. Such guarantee shall be in the form set forth in Appendix G hereto, or in such other form, as the PA shall have approved in writing. Any other payment shall be made after the conditions listed in the SC for such payment have been met, and the Consultant has submitted an invoice to the PA specifying the amount due.

#### 4.7 **GOOD FAITH**

- 7.1 Good Faith** The Parties undertake to act in good faith with respect to each other's rights under this Contract and to adopt all reasonable measures to ensure the realization of the objectives of this Contract.

#### 4.8 **SETTLEMENT OF DISPUTES**

- 8.1 Amicable Settlement** The Parties agree that the avoidance or early resolution of disputes is crucial for a smooth execution of the Contract and the success of the assignment. The Parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.
- 8.2 Dispute Resolution** Any dispute between the Parties as to matters arising pursuant to this Contract that cannot be settled amicably within thirty (30) days after receipt by one Party of the other Party's request for such amicable settlement may be submitted by either Party for settlement in accordance with the provisions specified in the SC.

### III. Special Conditions of Contract

(Clauses in brackets { } are optional; all notes should be deleted in final text)

<b>Number of GC Clause</b>	<b>Amendments of, and Supplements to, Clauses in the General Conditions of Contract</b>
{1.1}	Sindh Public Procurement Act and Sindh Public Procurement Rules 2010.
1.3	The language is English.
1.4	The addresses are: Procuring Agency: _____ Attention: _____ Facsimile: _____ E-mail: _____ Consultant: _____ _____ Attention: _____ Facsimile: _____ E-mail: _____

## Special Condition of Contract

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{1.6} {The Member in Charge is [insert name of member]}

*Note: If the Consultant consists of a joint venture/ consortium/ association of more than one entity, the name of the entity whose address is specified in Clause SC 1.6 should be inserted here. If the Consultant consists only of one entity, this Clause SC 1.8 should be deleted from the SC.*

1.7 The Authorized Representatives are:

For the PA: \_\_\_\_\_

For the Consultant: \_\_\_\_\_

1.8 *PA shall specify all relevant taxes including stamp duty and service charges to be borne by the consultant. In case there is exemption from any rates, taxes, the same shall be mentioned here.*

*The Consultant must be informed in Clause Reference 3.7 of the Data Sheet about which alternative the PA wishes to apply.*

The PA warrants that the Consultant, the Sub-Consultants and the Personnel shall be exempt from (or that the PA shall pay on behalf of the Consultant, the Sub-Consultants and the Personnel, or shall reimburse the Consultant, the Sub-Consultants and the Personnel for) any indirect taxes, duties, fees, levies and other impositions imposed, under the Applicable Law, on the Consultant, the Sub-Consultants and the Personnel in respect of:

- (a) any payments whatsoever made to the Consultant, Sub-Consultants and the Personnel (other than nationals or permanent residents of Pakistan ), in connection with the carrying out of the Services;
- (b) any equipment, materials and supplies brought into the Government's country by the Consultant or Sub-Consultants for the purpose of carrying out the Services and which, after having been brought into such territories, will be subsequently withdrawn there from by them;
- (c) any equipment imported for the purpose of carrying out the Services and paid for out of funds provided by the PA and which is treated as property of the PA;
- (d) any property brought into the province by the international Consultant, any Sub-Consultants or the Personnel or the eligible dependents of such Personnel for their personal use and which will subsequently be withdrawn there from by them upon their respective departure from the Government's country, provided that:

## Special Condition of Contract

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- (1) the Consultant, Sub-Consultants and Personnel, and their eligible dependents, shall follow the usual customs procedures of the Government's country in importing property into the Government's country; and
- (2) if the Consultant, Sub-Consultants or Personnel, or their eligible dependents, do not withdraw but dispose of any property in the Pakistan for which customs duties and taxes have been exempted, the Consultant, Sub-Consultants or Personnel, as the case may be,
  - (i) shall bear such customs duties and taxes in conformity with the regulations of the Government's country, or
  - (ii) shall reimburse them to the PA if they were paid by the PA at the time the property in question was brought into the Government's country.

2.2 The date for the commencement of Services is *[insert date]*.

2.3 The time period shall be *[insert time period, e.g.: twelve months, eighteen months]*.

3.4 The risks and the coverage shall be as follows:

- (a) Third Party motor vehicle liability insurance in respect of motor vehicles operated by the Consultant or its Personnel or any Sub-Consultants or their Personnel, with a minimum coverage of *[insert amount and currency]*;
- (b) Third Party liability insurance, with a minimum coverage of *[insert amount and currency]*;
- (c) professional liability insurance, with a minimum coverage of *[insert amount and currency]*;
- (d) employer's liability and workers' compensation insurance in respect of the Personnel of the Consultant and of any Sub-Consultants, in accordance with the relevant provisions of the Applicable Law, as well as, with respect to such Personnel, any such life, health, accident, travel or other insurance as may be appropriate; and
- (e) insurance against loss of or damage to (i) equipment purchased in whole or in part with funds provided under this Contract, (ii) the Consultant's property used in the performance of the Services, and (iii) any documents prepared by the Consultant in the performance of the Services.

## Special Condition of Contract

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*Note: Delete what is not applicable*

**{3.5 (c)}** {The other actions are: *[insert actions]*.}

*Note: If there are no other actions, delete this Clause SC 3.5 (c).*

**{3.7 (b)}** *Note: If there is to be no restriction on the future use of these documents by either Party, this Clause SC 3.7 should be deleted. If the Parties wish to restrict such use, any of the following options, or any other option agreed to by the Parties, may be used:*

{The Consultant shall not use these documents and software for purposes unrelated to this Contract without the prior written approval of the PA.}

{The PA shall not use these documents and software for purposes unrelated to this Contract without the prior written approval of the Consultant.}

{Neither Party shall use these documents and software for purposes unrelated to this Contract without the prior written approval of the other Party.}

**{5.1}** *Note: List here any assistance or exemptions that the PA may provide under Clause 5.1. If there is no such assistance or exemptions, state “not applicable.”*

**6.1** Procuring Agency shall indicate bid security not less than 1% and above 5%  
Performance security shall not exceed 10% of contract amount

**6.3** The amount in Pak Rupees or in foreign Currency *[insert amount]*.

## Special Condition of Contract

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6.5 The accounts are:

for foreign currency or currencies: *[insert account]*

for local currency: *[insert account]*

Payments shall be made according to the following schedule:

- (a) Twenty (20) percent of the Contract Price shall be paid on the commencement date against the submission of a demand guarantee for the same.
- (b) Ten (10) percent of the lump-sum amount shall be paid upon submission of the inception report.
- (c) Twenty-five (25) percent of the lump-sum amount shall be paid upon submission of the interim report.
- (d) Twenty-five (25) percent of the lump-sum amount shall be paid upon submission of the draft final report.
- (e) Twenty (20) percent of the lump-sum amount shall be paid upon approval of the final report.
- (f) The demand guarantee shall be released when the total payments reach fifty (50) percent of the lump-sum amount.

*Note: This sample clause should be specifically drafted for each contract.*

8.2 Disputes shall be settled by complaint redressal committee define in SPPR 2010 or through arbitration Act of 1940.in accordance with the following provisions:

**Appendix A**

**(INTEGRITY PACT)**

**DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC.  
PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN  
CONTRACTS WORTH RS. 10.00 MILLION OR MORE**

Contract No. \_\_\_\_\_ Dated \_\_\_\_\_  
Contract Value: \_\_\_\_\_  
Contract Title: \_\_\_\_\_

..... [name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Sindh (GoS) or any administrative subdivision or agency thereof or any other entity owned or controlled by GoS through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoS, except that which has been expressly declared pursuant hereto.

[name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoS and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[name of Supplier] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoS under any law, contract or other instrument, be voidable at the option of GoS.

Notwithstanding any rights and remedies exercised by GoS in this regard, [name of Supplier] agrees to indemnify GoS for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoS in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoS.

Name of Buyer: .....  
Signature: .....  
[Seal]

Name of Seller/Supplier: .....  
Signature: .....  
[Seal]

## CONTRACT

THIS CONTRACT (“Contract”) is entered into this *[insert starting date of assignment]*, by and between *[insert PA’s name]* (“the PA”) having its principal place of business at *[insert PA’s address]*, and *[insert Consultant’s name]* (“the Consultant”) having its principal office located at *[insert Consultant’s address]*.

WHEREAS, the PA wishes to have the Consultant performing the services hereinafter referred to, and

WHEREAS, the Consultant is willing to perform these services,

NOW THEREFORE THE PARTIES hereby agree as follows:

- 1. Services**
  - (i) The Consultant shall perform the services specified in Annex A, “Terms of Reference and Scope of Services,” which is made an integral part of this Contract (“the Services”).
  - (ii) The Consultant shall provide the reports listed in Annex B, “Consultant’s Reporting Obligations,” within the time periods listed in such Annex, and the personnel listed in Annex C, “Cost Estimate of Services, List of Personnel and Schedule of Rates” to perform the Services.
  
- 2. Term** The Consultant shall perform the Services during the period commencing *[insert start date]* and continuing through *[insert completion date]* or any other period as may be subsequently agreed by the parties in writing.
  
- 3. Payment**
  - A. Ceiling

For Services rendered pursuant to Annex A, the PA shall pay the Consultant an amount not to exceed *[insert amount]*. This amount has been established based on the understanding that it includes all of the Consultant’s costs and profits as well as any tax obligation that may be imposed on the Consultant.
  
  - C. Payment Conditions

Payment shall be made in *[specify currency]*, no later than 30 days following submission by the Consultant of invoices in duplicate to the Coordinator designated in paragraph 4.
  
- 4. Economic Price Adjustment** In order to adjust the remuneration for inflation, a price adjustment provision has been included if the contract has duration of more than 18 months or if the inflation is expected to exceed % per annum. The adjustment will be made every 12 months after the date of the contract for remuneration. Remuneration will be adjusted by using the relevant index as per following provision:  
“Payments for remuneration made in accordance with Clause 3 shall be adjusted as follows:

Remuneration pursuant to the rates set forth in Annex C shall be adjusted every 12 months (and, for the first time, with effect for the remuneration earned in the [13] th calendar month after the date of the Contract) by applying the following formula:

$$R_t = R_{t_0} \times \frac{I_t}{I_{t_0}}$$

where  $R_t$  is the adjusted remuneration,  $R_{t_0}$  is the remuneration payable on the basis of the rates set forth in Annex C for payable remuneration,  $I_t$  is the official rate of inflation for the first month for which the adjustment is to have effect and,  $I_{t_0}$  is the official rate of inflation for the month of the date of the Contract.”]

**5. Project Administration**

A. Coordinator

The PA designates Mr./Ms. [insert name] as PA’s Coordinator; the Coordinator shall be responsible for the coordination of activities under the Contract, for receiving and approving invoices for payment, and for acceptance of the deliverables by the PA.

B. Timesheets

During the course of their work under this Contract the Consultant’s employees providing services under this Contract may be required to complete timesheets or any other document used to identify time spent, as instructed by the Coordinator.

C. Records and Accounts

The Consultant shall keep accurate and systematic records and accounts in respect of the Services, which will clearly identify all charges and expenses. The PA reserves the right to audit, or to nominate a reputable accounting firm to audit, the Consultant’s records relating to amounts claimed under this Contract during its term and any extension, and for a period of three months thereafter.

**6. Performance Standard**

The Consultant undertakes to perform the Services with the highest standards of professional and ethical competence and integrity. The Consultant shall promptly replace any employees assigned under this Contract that the PA considers unsatisfactory.

**7. Confidentiality**

The Consultants shall not, during the term of this Contract and within two years after its expiration, disclose any proprietary or confidential information relating to the Services, this Contract or the PA’s business or operations without the prior written consent of the PA.

**8. Ownership of Material**

Any studies, reports or other material, graphic, software or otherwise, prepared by the Consultant for the PA under the Contract shall belong to and remain the property of the PA. The Consultant may retain a copy of such documents and

## Contract

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software.

- 9. Consultant Not to be Engaged in Certain Activities** The Consultant agrees that, during the term of this Contract and after its termination, the Consultants and any entity affiliated with the Consultant, shall be disqualified from providing goods, works or services (other than the Services or any continuation thereof) for any project resulting from or closely related to the Services.
- 10. Insurance** The Consultant will be responsible for taking out any appropriate insurance coverage for their personnel and equipments.
- 11. Assignment** The Consultant shall not assign this Contract or Subcontract any portion thereof it without the PA's prior written consent.
- 12. Law Governing Contract and Language** The Contract shall be governed by the laws of Islamic Republic of Pakistan or the Provincial Government and the language of the Contract shall be English.
- 13. Dispute Resolution** Any dispute arising out of this Contract, which cannot be amicably settled between the parties, shall be referred to adjudication/arbitration in accordance with the Arbitration Act of 1940

FOR THE PA

FOR THE CONSULTANT

Signed by \_\_\_\_\_


Signed by \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

**ANNUAL PROCUREMENT PLAN  
(WORKS)  
Financial Year 2025-2026**

Sr.#	Description of Procurement	Quantity (where applicable)	Estimated unit cost (where applicable)	Estimated Total Cost	Funds allocated	Source of funds	Proposed procurement method	Timing of procurements				Remarks
								1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
1	Survey Study / Detailed Engineering Design & Drawings, Preparation of Detailed Working Estimates, BOQ, / PC-I(s) Modified / Revised PC-I and Tender / Bidding Documents / Geotechnical / Soil Investigation Study and preparation of detail feasibility of Construction of New 4-Lane Highway Bridge over River Indus between Hyderabad and Kotri	N/A	N/A	147.200	36.800	ADP	Single Stage Two Envelops	√				

  
**EXECUTIVE ENGINEER**  
 PROVINCIAL HIGHWAYS DIVISION  
 HYDERABAD



**GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT**

Karachi, dated the 30<sup>th</sup> September, 2025

**NOTIFICATION**

**No.E&A(W&S)3-9/91/Conslt(PHD)/23:** In continuation of this department's notification of even number dated 31.07.2023, the Chairman of the Consultant Selection Committee at Sr. No.1 is hereby replaced by Superintending Engineer Provincial Highways Circle, Hyderabad in lieu of Project Manager (PIU) Hyderabad Mirpurkhas Dual Carriageway Project Hyderabad, with immediate effect.


2. The functions & responsibilities of the committee will be the same as specified in Rule-71 of the Sindh Public Procurement Rules-2010 (amended upto date).

**MUHAMMAD NAWAZ SOHOO, PAS  
SECRETARY TO GOVT. OF SINDH**

No.E&A(W&S)3-9/91/Conslt(PHD)/23 Karachi, dated the 30<sup>th</sup> September, 2025

A copy is forwarded for information and necessary action to:-

1. The Chairman, P&D Board, Karachi, with the request to nominate an officer, not below the rank of BPS-18
2. The Secretary, Finance Department, Govt. of Sindh Karachi, with the request to nominate an officer, not below the rank of BPS-18
3. The Accountant General, Sindh, Karachi.
4. The Managing Director, SPPRA, Karachi.
5. The Chief Engineer (Highways), Hyderabad.
6. The Chairman/Members of the Committee.
7. The Executive Engineer, Provincial Highways Division, Hyderabad.
8. The District Accounts Officer, Hyderabad.
9. Office order file.

  
30/09/25  
**(SIRAJUDDIN ABBASI)**  
SECTION OFFICER (GENERAL)



**GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT**

Karachi, dated the 31<sup>st</sup> July, 2023

**NOTIFICATION**

No.E&A(W&S)/3-9/91/Conslt(PHDH)/23. With the approval of Competent Authority, the Consultant's Selection Committee in terms of Rule-67 of Sindh Public Procurement Rules-2010 (Amended upto-date) is hereby constituted in the office of **Executive Engineer, Provincial Highways Division, Hyderabad** with the following composition:-

**CONSULTANT SELECTION COMMITTEE**

1.	Project Manager, (PIU) Hyderabad-Mirpurkhas Dual Carriageway Project Hyderabad	<b>Chairman</b>
2.	Nominee of the Planning & Development Department (Not Below the Rank of BPS-18)	<b>Member</b>
3.	Nominee of the Finance Department (Not Below the Rank of BPS-18)	<b>Member</b>
4.	Executive Engineer, Provincial Highways Division, Sanghar	<b>Member-Technical</b>
5.	Executive Engineer, Provincial Highways Division Hyderabad	<b>Member/Secretary</b>

2. The Functions & Responsibilities of the Committee will be same as specified in Rules-71 of Sindh Public Procurement Rules-2010(Amended up-to date).

**MUHAMMAD NAWAZ SOOHO, PAS  
SECRETARY TO GOVERNMENT OF SINDH**

No.E&A(W&S)/3-9/91/Conslt(PHDH)/23.

Karachi, dated the 31<sup>st</sup> July,2023

**A copy is forwarded for information to:-**

1. The Chairman, Planning & Development (Board), Karachi, with request to nominate an officer, not below the rank of BPS-18.
2. The Secretary, Finance Department, Karachi, with request to nominate an officer, not below the rank of BPS-18.
3. The Accountant General, Sindh, Karachi.
4. The Chief Engineer (Highways), Hyderabad.
5. The Project Manager, (PI.U) Hyderabad-Mirpurkhas Dual Carriageway Project Hyderabad.
6. The Chairman / Members of the Committee.
7. The District Accounts Officer (Concerned).
8. P.S to Secretary, Works & Services Department, Karachi.
9. P.A to AS/ DS (Admn.), Works & Services Department.
10. Notification file.

**(ALTAH HUSSAIN)  
SECTION OFFICER (GENERAL)**

*(Handwritten signature)*  
31/7/2023



**GOVERNMENT OF SINDH  
WORKS & SERVICES DEPARTMENT**

Karachi, dated the 7<sup>th</sup> November, 2024

**NOTIFICATION**

**No.E&A/(W&S)/3-9/2024(CRC)/HMDC:** With the approval of Competent Authority a Complaint Redressal Committee for the Consultant Selection Committee with the following composition, in terms of Rule-31(1) of Sindh Public Procurement Rules-2010 (Amended upto date), is hereby constituted in the office of Chief Engineer (Highways) Hyderabad for the offices of Executive Engineer, Provincial Highways Division, Hyderabad/Shaheed Benazirabad/Naushahro Feroze for Redressal of grievances and settlement of disputes, if any, arises between procuring agency and bidders:-

1.	Chief Engineer (Highways) Hyderabad	Chairman
2.	Divisional Accounts Officer (BPS-17) Emergency Flood Assisted Project, Works & Services Department, Hyderabad.	Member
3.	Mr. Muhammad Ali Memon, Retired-Executive Engineer	Member

2. The Functions & Responsibilities of the Committee will be same as specified in Rule-31(4) and (5) of Sindh Public Procurement Rule-2010.


**MUHAMMAD ALI KHOSO  
SECRETARY TO GOVT. OF SINDH**

No.E&A/(W&S)/3-9/2024(CRC)/HMDC:

Karachi dated the 7<sup>th</sup> November, 2024.

**A copy is forwarded for information to:-**

1. The Accountant General, Sindh, Karachi.
2. The Managing Director, SPPRA, Karachi.
3. The Chief Engineer (Highways), Hyderabad.
4. The Project Manager, Hyderabad-Mirpurkhas Dual Carriageway Project, Hyderabad
5. The Chairman/Members of the Committee.
6. The District Accounts Officer, (concerned).
7. P.S to Secretary, W&S Department.
8. Notification file.

  
(SIRAJUDDIN ABBASI)  
SECTION OFFICER (GENERAL)  
FOR SECRETARY TO GOVT. OF SINDH